



Appendix 2-A – Sample Airport Survey





#### New Hampshire State System Plan Update and Economic Analysis

#### **Commercial Service Airport Survey**

This survey is intended to supplement existing information gathered from the Division of Aeronautics on your facility and will be used to update the State's on-going Airport System Plan. The information requested in this survey covers several categories including Operational, Environmental, Local Government, and Economic.

	port:
Ind	lividual Completing Survey:
Ad	dress and Phone:
A.	OPERATIONAL
1.	Does the current air service provide useful and adequate service to the region you serve? YesNo
	If no, please explain:
2.	What specific markets are not served now that you feel could support future scheduled jet service, and which airline(s) would you like to see serve this market?
3.	Are you currently marketing airlines to provide or increase service? Yes No
	If yes, please indicate where and what airline:
4.	Are you aware of any operational limitations imposed on airlines at the airport due to physical facility constraints or instrument approaches? Yes _ No
	If yes, please briefly explain:
5.	Does your facility meet current FAA Design Criteria for the following:
	Runway Safety Area? Yes No Unknown
	Runway Protection Zone? Yes No Unknown
	Runway Object Free Area? Yes No Unknown Other? Yes No Explain:





6.	Are there existing penetrations to your FAR Part 77 Imaginary Surfaces? Yes No				
	If yes, do these penetrations impact your airport in terms of runway length (such as displaced or relocated thresholds) or instrument approach minimums?				
	If yes, please briefly explain:				
7.	Do you expect to FAA to upgrade, any of your existing instrument approaches or publish any new approaches over the next several years? Yes No				
	If yes, please explain:				
B.	ENVIRONMENTAL				
8.	Are there any environmental limitations to development on-airport (e.g. wetlands)? Yes No				
	If yes, please briefly explain:				
9.	Are there any environmental limitations to development off-airport? Yes No				
	If yes, please briefly explain:				
10.	Do you have a perceived noise issue or aircraft over-flight issue? Yes No				
	If yes, please briefly explain:				
C.	GOVERNMENTAL				
11.	Has airport related zoning been established in the town(s) in which your airport is located? Yes				
-•	No				
	If yes, could you provide a copy of the zoning ordinance?				







2. If no zoning exists, have co	onsiderations been given to establish a zoning ordinance? Yes	_ No _
If yes, please describe and	note time frame:	
3. In general, is there local po	olitical support for the airport? Yes No	
If no, how has it affected the	ne airport and its operations?	
If yes, how has it helped th	e airport?	
ECONOMIC     Please indicate the percent:	age of use by the following categories:	
Commercial Service: Business/Corporate: Charter: Cargo: Recreational: Instructional: Agriculture Med/Police/Government Other (explain): Total:	100%	
5. If you have business/corpo frequency:	rate traffic, please indicate the types of aircraft used and daily/wee	ekly
-		





16.	Are you aware of small single and twin engine aircraft being used for business purposes that operate to or from the airport? Yes No					
	If yes, could you speculate on the percentage of small GA operations that are business oriented?					
	What percentage of your recreational users also use their aircraft for business purposes?%					
17.	What is the primary "draw" of the airport? (rank order )					
	Commercial Passenger Service Cargo Recreation/Tourism Aircraft Service Business Close to Population Centers Other					
	_					
	Does your airport have a terminal building for passengers?  Yes No  If yes, how large is the building/public area?  Please check the types of businesses and services that are provided at the airport:  Bus Service:  Taxi Service:  Limousine Service:  Rental Car:  Other (explain):					
23.	Please indicate the total number of businesses and services at your airport.					
24.	Is a list of airport-based business and service contacts available from your office? Yes No					
25.	What is the estimated volume of aviation fuel sold at your airport last year? gallons \$					
26.	Please check the utilities that are available at your airport.					
	Water Sewer Gas Electricity Fiber Optic Cable					





27. Does your airport current	ly lease apron, hanger space or		nove to question 27 A) ove to question 28)
27A. Please indicate lease rat	es, etc. for the following items	:	
	Square Feet Occupied	SF Available	Lease Rate/SF
Hanger Space Apron Space Land Office Space Commercial Space Other Space			
27B. If you currently lease la	nd at your facility, please list t	he use(s) of that land	
	on-aviation property used by co		





#### New Hampshire State System Plan Update and Economic Analysis

#### **General Aviation Airport Survey**

This survey is intended to supplement existing information gathered from the Division of Aeronautics on your facility and will be used to update the State's on-going Airport System Plan. The information requested in this survey covers several categories including Operational, Environmental, Local Government, and Economic.

Ai	rport:
Co	intact Completing Survey:
Ad	ldress and Phone:
A.	OPERATIONAL
1.	Do you maintain the following activity statistics for your airport:
	Annual Aircraft Operations? Yes No Based Aircraft Counts? Yes No Local Itinerant Operations Split? Yes No
2.	If you answered yes to any of the above elements, could you provide the past three years of data?
	Yes No
3.	Please explain the trends in aircraft activity at your facility over the past five years:
4.	Please explain the trends in based aircraft at your facility over the past five years:





Does your facility meet current	FAA Design Criteria for the following:
Runway Safety Area? Runway Protection Zone? Runway Object Free Area? Other?	Yes No Unknown         Yes No Unknown         Yes No Unknown         Yes No Explain:
Are there existing penetrations	to your FAR Part 77 Imaginary Surfaces? Yes No
	pact your airport in terms of runway length (such as displaced or nent approach minimums? Please explain:
develop an instrument approach	paches to your facility, do you have plans (through the FAA) to a? Yes No
If you have existing instrument approaches over the next severa	approaches, do you expect to upgrade any of your instrument al years? Yes No
approaches over the next severa	
approaches over the next severa  If yes, please explain:	al years? Yes No
approaches over the next severa	al years? Yes No
approaches over the next severa  If yes, please explain:  ENVIRONMENTAL	al years? Yes No
approaches over the next several If yes, please explain:  ENVIRONMENTAL  Are there any environmental line	al years? Yes No







11.	Are there any environmental limitations to development off-airport? Yes No
	If yes, please briefly explain:
12.	Do you have a perceived noise issue or aircraft over-flight issue? Yes No
	If yes, please explain:
C.	GOVERNMENTAL
13.	Has airport related zoning been established in the town(s) in which your airport is located?  Yes No
	If yes, could you provide a copy of the zoning ordinance?
14.	If no zoning exists, have considerations been given to establishing a zoning ordinance? Yes No
	If yes, please describe and note timeframe:
15.	In general, is there local political support for the airport? Yes No
	If no, how has it affected the airport and its operations?
	If yes, how has it helped the airport?

D. ECONOMIC







Business/Corporate:						
Charter:						
Cargo:						
Recreational:						
Instructional:						
Agriculture:						
Med/Police/Government:		_				
		_				
Other (explain): Total:	100%	<del></del>				
Total.	1007	0				
. If you have corporate traf	fic, pleas	e indicate th	e types of aircra	ft used and daily	y/weekly frec	uency:
Are you aware of small si to or from the airport? Ye	-	-	aircraft being u	sed for business	purposes tha	t operat
If yes, could you speculat	e on the p	percentage o	f small GA oper	rations that are b	ousiness orien	ted?
What percentage of your	recreation	nal users also	o use their aircra	aft for business p	ourposes?	%
What percentage of your notes.  What is the primary "draw			use their aircra	aft for business p	ourposes?	%
. What is the primary "drav	v" of the		o use their aircra	nft for business p	ourposes?	%
. What is the primary "drav Commercial Passenger Se	v" of the		o use their aircra	aft for business p	ourposes?	%
. What is the primary "draw Commercial Passenger Se Cargo:	v" of the		o use their aircra	oft for business p	ourposes?	%
. What is the primary "draw Commercial Passenger Se Cargo: Recreation/Tourism:	v" of the		o use their aircra	aft for business p	ourposes?	%
. What is the primary "draw Commercial Passenger Se Cargo: Recreation/Tourism: Aircraft Service:	v" of the		use their aircra	aft for business p	ourposes?	%
. What is the primary "draw Commercial Passenger Se Cargo: Recreation/Tourism: Aircraft Service: Business:	v" of the ervice:		use their aircra	aft for business p	ourposes?	0/0
. What is the primary "draw Commercial Passenger Se Cargo: Recreation/Tourism: Aircraft Service:	v" of the ervice:		o use their aircra	aft for business p	ourposes?	
. What is the primary "draw Commercial Passenger Se Cargo: Recreation/Tourism: Aircraft Service: Business:	v" of the ervice:		o use their aircra	oft for business p	ourposes?	%
Commercial Passenger Secargo: Recreation/Tourism: Aircraft Service: Business: Close to Population Center Other:	v" of the ervice:	airport?		oft for business p		
Commercial Passenger Secargo: Recreation/Tourism: Aircraft Service: Business: Close to Population Center	v" of the ervice: ers:	airport?  —— —— ouilding for p	passengers?	Yes		
. What is the primary "draw Commercial Passenger Se Cargo: Recreation/Tourism: Aircraft Service: Business: Close to Population Cente Other:	v" of the ervice: ers: erminal b	airport?  —— —— ouilding for p	passengers?	Yes	No	
Commercial Passenger Secargo: Recreation/Tourism: Aircraft Service: Business: Close to Population Center Other:  Does your airport have a tall of the second	v" of the ervice: ers: erminal b	airport?  —— —— ouilding for p	passengers?	Yes	No	
Commercial Passenger Secargo: Recreation/Tourism: Aircraft Service: Business: Close to Population Center Other:  Does your airport have a t  If yes, how large is th  Please check the types of the	v" of the ervice: ers: erminal b	airport?  —— —— ouilding for p	passengers?	Yes	No	
Commercial Passenger Sec Cargo: Recreation/Tourism: Aircraft Service: Business: Close to Population Center Other:  Does your airport have a tall of the second seco	v" of the ervice: ers: erminal b	airport?  —— —— ouilding for p	passengers?	Yes	No	
Commercial Passenger Secargo: Recreation/Tourism: Aircraft Service: Business: Close to Population Center Other:  Does your airport have a t  If yes, how large is th  Please check the types of I  Bus Service: Taxi Service: Limousine Service:	v" of the ervice: ers: erminal b	airport?  —— —— ouilding for p	passengers?	Yes	No	
Commercial Passenger Secargo: Recreation/Tourism: Aircraft Service: Business: Close to Population Center Other:  Does your airport have a to If yes, how large is the Please check the types of the Bus Service: Taxi Service:	v" of the ervice: ers: erminal b	airport?  —— —— ouilding for p	passengers?	Yes	No	







24. Is a list of airport-based	ousiness and service contacts	available from your office	? Yes No
25. What is the estimated vo	lume of aviation fuel sold at	your airport last year?	gallons \$
26. Please check the utilities	that are available at your air	port.	
Water Sew Electricity Fibe	rer Gas er Optic Cable		
27. Does your airport curren	tly lease apron, hanger space	or land? Yes(m No	ove to question 27 A
27A. Please indicate lease ra	tes, etc. for the following iter	ms:	
	Square Feet Occupied	SF Available	Lease Rate/SF
Hanger Space Apron Space Land Office Space Commercial Space Other Space			
27B. If you currently lease la	and at your facility, please lis	at the use(s) of that land	
28. Please add any additiona	l comments or information y	ou deem pertinent to this su	rvey:





Appendix 2-B – ARC Designations for Various Aircraft Types







# ARC DESIGNATIONS FOR VARIOUS AIRCRAFT TYPES



A-I Piper Cub J3



ARC A-I Cessna C182 Skylane



ARC B-I Beech Baron 58



ARC B-I/II Beech King Air



ARC B/C-II Dassault Falcon 2000



ARC C-III Boeing 737





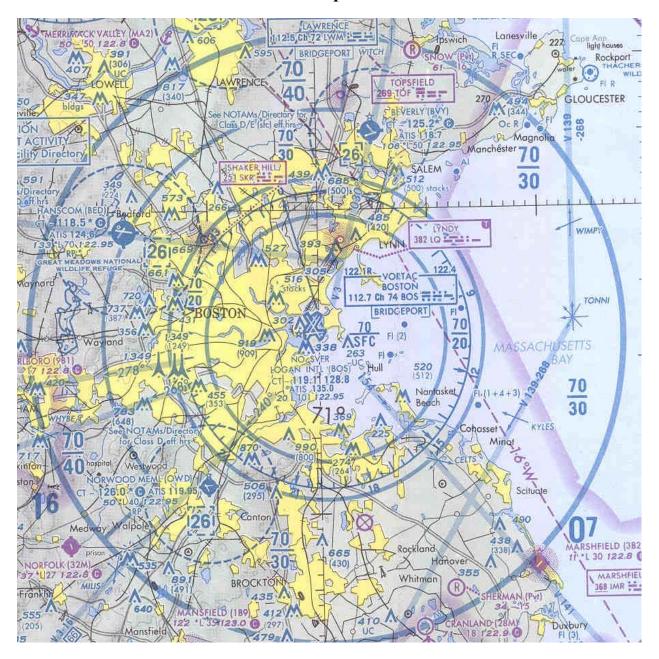
Appendix 2-C – Airspace







#### **Class B Airspace – Boston**



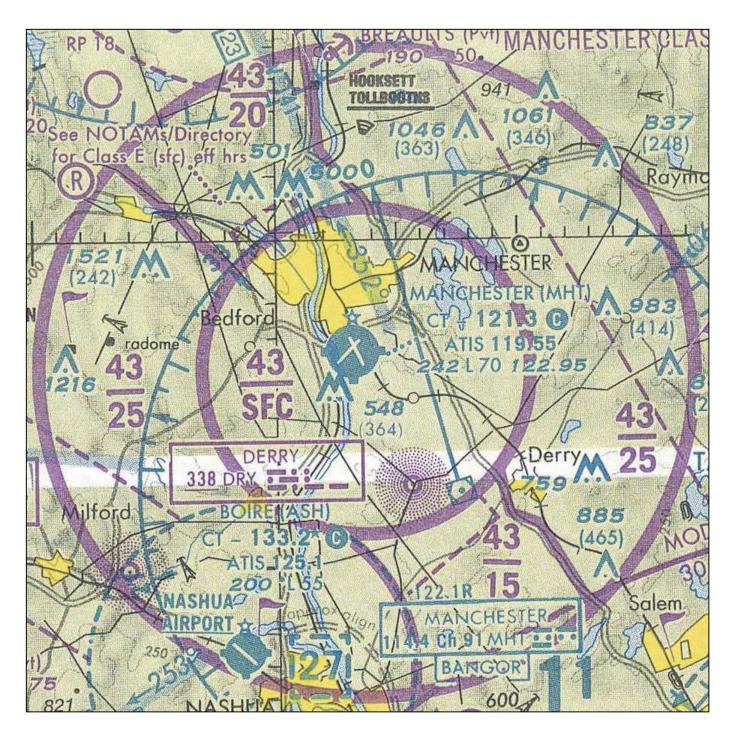
Source: National Oceanic and Atmospheric Administration, New York Aeronautical Sectional Chart







# **Class C Airspace - Manchester**



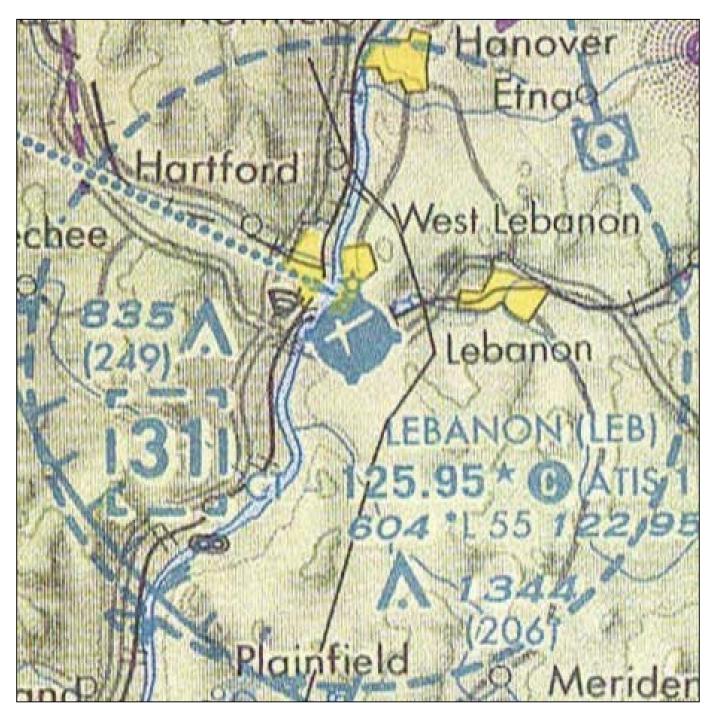
Source: National Oceanic and Atmospheric Administration, New York Aeronautical Sectional Chart







# Class D Airspace - Lebanon



Source: National Oceanic and Atmospheric Administration, New York Aeronautical Sectional Chart

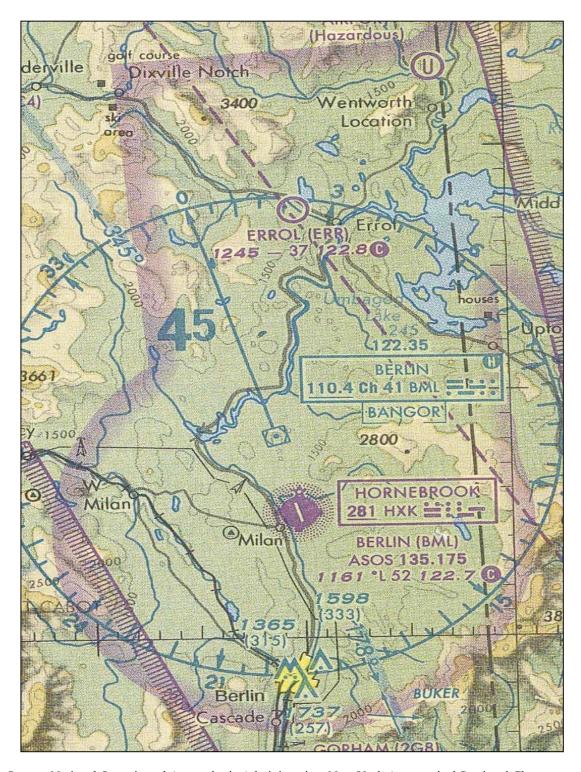








# Class E/G Airspace – Berlin



Source: National Oceanic and Atmospheric Administration, New York Aeronautical Sectional Chart.







#### **Appendix 2-D – Historical FAA AIP Grants**





REGION: ANE STATE: NH CITY: MANCHESTER LOCID: MHT AIRPORT: MANCHESTER SITE NO: 13332. \*A NPIAS: 330011 TYPE: PRIMARY HUB: SMALL FY GRANTS DISCRETIONARY ENTITLEMENT TOTAL 1982 11 198,336 198,336 1983 3 861,478 225,584 1,087,062 1984 161,287 1 234,518 395,805 1986 1 125,361 686,092 811,453 1987 2 0 296,697 296,697 1988 1 38,468 771,435 809,903 1990 3 172,020 1,781,046 1,953,066 1991 2 4,320,303 1,288,391 5,608,694 1992 4 8,961,139 1,333,157 10,294,296 7 1993 15,966,751 1,540,586 17,507,337 1994 4,529,279 701,354 5,230,633 1995 3 1,411,872 2,712,012 4,123,884 1996 2 2,265,898 381,304 2,647,202 1997 3 8,227,076 3,377,335 11,604,411 1999 2 3,039,000 1,725,000 4,764,000 2000 8,048,657 3 2,294,466 10,343,123 19,547,313 TOTAL 42 58,128,589 77,675,902







REGION:	ANE STA LEBANON M	TE: NH CITY: L	EBANON	LOCID: LEB
	13317.*A	NPIAS: 330010	TYPE: PRIMARY	HUB: NON
FY	GRANTS	DISCRETIONARY	ENTITLEMENT	TOTAL
1983	1	1,779,161	143,821	1,922,982
1984	1	47,970	0	47,970
1985	1	125,516	Ö	125,516
1986	1	199,513	0	199,513
1987	2	261,393	0	261,393
1988	1	8,892	433,800	442,692
1989	2	1,486,633	476,227	1,962,860
1991	1	2,133,648	300,000	2,433,648
1992	1	412,775	325,541	738,316
1993	1	0	312,305	312,305
1995	1	3,300	319,901	323,201
1996	1	0	391,019	391,019
1997	1	1,413,863	1,111,892	2,525,755
1998	2	21,544	510,434	531,978
1999	1	0	500,000	500,000
2000	2	0	812,850	812,850
TOTAL	20	7,894,208	5,637,790	13,531,998







REGION: ANE STATE: NH CITY: PORTSMOUTH AIRPORT: PEASE INTERNATIONAL TRADEPORT LOCID: PSM

PEASE INT	ERNATIONAL TRADEI NPIAS: 330016	PORT TYPE: GENERAL AVIATION	HUB:
GRANTS	DISCRETIONARY	ENTITLEMENT	TOTAL
1	573,583	0	573,583
2	280,396	120,639	401,035
3	3,005,939	Ö	3,005,939
1	3,800,000	0	3,800,000
ī	3,999,484	378,246	4,377,730
3	3,626,535	383,697	4,010,232
2	4,658,609	0	4,658,609
2	1,744,375	348,367	2,092,742
2	1,558,528	0	1,558,528
2	1,981,702	1,633	1,983,335
19	25,229,151	1,232,582	26,461,733
	13386.*A GRANTS  1 2 3 1 1 2 2 2 2 2	13386.*A NPIAS: 330016  GRANTS DISCRETIONARY  1 573,583  2 280,396  3 3,005,939  1 3,800,000  1 3,999,484  3 3,626,535  2 4,658,609  2 1,744,375  2 1,558,528  2 1,981,702	GRANTS DISCRETIONARY ENTITLEMENT  1 573,583 0  2 280,396 120,639  3 3,005,939 0  1 3,800,000 0  1 3,999,484 378,246  3 3,626,535 383,697  2 4,658,609 0  2 1,744,375 348,367  2 1,558,528 0  2 1,981,702 1,633







REGION: ANE STATE: NH CITY: NASHUA LOCID: ASH

	BOIRE FIE	IE: NH CITT: N	AUNCA	LOCID: ASH
	13350. *A		TYPE: RELIEVER	HUB: LARGE
E/A	GRANTS	DISCRETIONARY	ENTITLEMENT	TOTAL
1982	1	79,675	0	79,675
1983	1	544,410	0	544,410
1984	1	472,500	0	472,500
1985	1	447,754	O	447,754
1986	1	130,663	46,469	177,132
1987	2	794,216	Ö	794,216
1988	2	276,036	Ö.	276,036
1990	1	525,934	O	525,934
1991	2	504,292	0	504,292
1992	2	420,243	0	420,243
1993	1	916,267	0	916, 267
1996	1	443,303	0	443,303
1997	1	0	46,622	46,622
1999	2	0	178,486	178,486
2000	1	0	236,481	236,481
TOTAL	20	5,555,293	508,058	6,063,351







REGION: ANE STATE: NH CITY: CONCORD LOCID: CON AIRPORT: CONCORD MUNICIPAL SITE NO: 13224. A NPIAS: 330004 TYPE: GENERAL AVIATION HUB: FY GRANTS DISCRETIONARY ENTITLEMENT TOTAL 1983 1 83,150 83,150 0 1984 1 173,517 0 173,517 1986 1 0 52,466 52,466 1989 1 0 109,670 109,670 1990 1 97,070 1,339,123 1,436,193 1991 670,114 1 0 670,114 1993 1 285,977 0 285,977 1994 2 22,266 289,117 311,383 1996 1 0 46,017 46,017 1998 1 0 143,523 143,523 1999 1 97,790 0 97,790 2000 1 0 131,580 131,580 TOTAL 13 661,980 2,879,400 3,541,380





2,565,385

#### **AIP Grant Information**

REGION: ANE STATE: NH CITY: ROCHESTER LOCID: DAW AIRPORT: SKYHAVEN SITE NO: 13395.\*A NPIAS: 330015 TYPE: GENERAL AVIATION HUB: FY GRANTS DISCRETIONARY ENTITLEMENT TOTAL 1982 1 38,156 174,113 212,269 1984 2 9,770 179,622 189,392 1985 1 814,361 352,938 1,167,299 1986 1 0 171,191 171,191 1993 2 59,702 75,510 135,212 1995 0 1 13,500 13,500 1996 1 270,268 270,268 1997 113,427 113,427 1999 226,632 226,632 2000 1 66,195 66,195

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1,643,396

921,989



TOTAL

12





REGION: ANE STATE: NH CITY: KEENE LOCID: EEN AIRPORT: DILLANT-HOPKINS

SITE NO: 13306.\*A NPIAS: 330008 TYPE: GENERAL AVIATION HUB:

TOTAL	ENTITLEMENT	DISCRETIONARY	GRANTS	FY
123,812	0	123,812	£	1983
37,780	O	37,780	1	1984
27,675	0	27,675	1	1985
134,177	0	134,177	2	1987
2,829,994	0	2,829,994	1	1989
240,445	0	240,445	1	1992
751,414	516,908	234,506	2	1993
379,397	o.	379,397	1	1994
679,963	279,463	400,500	2	1995
1,099,980	476,980	623,000	2	1997
43,986	43,986	0	1,	1998
235,980	235,980	Ó	1	1999
6,584,603	1,553,317	5,031,286	16	TOTAL







REGION. ANE STATE: NH CITY: CLAREMONT LOCID+ CNH

TOTAL 11 378,932

REGION:	ANE STA CLAREMONT	TE: NH CITY: C	LAREMONT	LOCID: CNH
	13218.*A	NPIAS: 330002	TYPE: GENERAL AVIATION	HUB:
FY	GRANTS	DISCRETIONARY	ENTITLEMENT	TOTAL
1984	1	29,741	85,500	115,241
1988	1	12,786	172,800	185,586
1992	1	16,924	489,600	506,524
1993	1	0	137,185	137,185
1994	1	292,926	39,175	332,101
1995	1	0	80,640	80,640
1996	1	25,348	140,400	165,748
1997	1	0	37,800	37,800
1998	1	0	108,900	108,900
2000	2	1,207	505,800	507,007

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1,797,800 2,176,732







REGION: ANE STATE: NH CITY: LACONIA LOCID: LCI AIRPORT: LACONIA MUNICIPAL SITE NO: 13312.\*A NPIAS: 330009 TYPE: GENERAL AVIATION HUB:

SITE NO:	13312. A	NPIAS: 330009	TYPE: GENERAL AVIATION	HUB:
FY	GRANTS	DISCRETIONARY	ENTITLEMENT	TOTAL
1983	2	1,308,784	0	1,308,784
1984	1	166,459	0	166,459
1985	2	1,035,067	O	1,035,067
1986	2	661,550	0	661,550
2000	1	0	86,524	86,524
2001	1	0	65,764	65,764
TOTAL	9	3,171,860	152,288	3,324,148







REGION: ANE STATE: NH CITY: BERLIN LOCID: BML AIRPORT: BERLIN MUNICIPAL

SITE NO: 13201. A NPIAS: 330001 TYPE: GENERAL AVIATION HUB:

TOTAL	ENTITLEMENT	DISCRETIONARY	GRANTS	FY
22,002	22,002	0	1	1983
49,590	28,030	21,560	1	1984
1,040,089	0	1,040,089	1	1985
267,670	267,670	0	1	1988
148,887	148,887	o	1	1992
487,204	441,053	46,151	1	1995
82,683	82,683	0	1	1998
476,950	458,119	18,831	2	1999
2,575,075	1,448,444	1,126,631	9	TOTAL







REGION: ANE STATE: NH CITY: WHITEFIELD LOCID: HIE

AIRPORT: MOUNT WASHINGTON REGIONAL

SITE NO: 13452.\*A NPIAS: 330017 TYPE: GENERAL AVIATION HUB:

FY	GRANTS	DISCRETIONARY	ENTITLEMENT	TOTAL
1983	1	156,605	208,776	365,381
1986	1	0	29,352	29,352
1993	1	161,310	0	161,310
1995	1	0	58,666	58,666
1996	1	7,551	45,237	52,788
1997	1	0	147,803	147,803
1999	1	0	44,922	44,922
2001	1	0:	118,620	118,620
TOTAL	В	325,466	653,376	978,842







Appendix 4-A – Aircraft Owner Survey





List Make and Model of each aircraft owned?



	FROM NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION DIVISION OF AERONAUTICS: In an						
effort to provide an effective statewide aviation program the Division of Aeronautics has retained an aviation consultant to update the State Airport System Plan. As a part of this study an aircraft owner survey has been developed to inquire how the							
3. Ownership of the aircraft?	aircraft owner survey has been developed to inquire how the						
(Private I)(Joint Ownership I)(Business I)	aviation industry uses airport services that are provided within the state.						
4. How is the aircraft primarily used?	The information that is received will be kept in strict confidence						
(Business I)(RecreationalI)(Air Taxi I)(Training I)	and will only be used to generate the final report. Please fill out and return this survey to us by <b>September 7, 2001</b> . No postage						
5. How many hours per year is(are) the aircraft flown.	is needed. We thank you in advance for your cooperation.						
(Business)(Recreational)(Air Taxi)(Training)	Happy flying and clear skies to everyone.						
Please list the New Hampshire airports that you visit frequently during the year							
7. How important do you rank the following airport facilities (please r representing none)?	rank each separately on a scale of 5 to 0, 5 being most important and 0						
Restaurant facility, Fuel Cost, Instrument Approaches	, Quality of FBO Services, Convenient for business,						
Paved runways							
8. If the aircraft is used for business, please provide:							
Type and location of business Number of employees located in New Hampshire	-						
Fotal amount spent for air travel per year \$							
. State desire operation and distribute your y							
How is the aircraft used for business (please rank each separately of To make commercial airline connections  For the transportation of business personnel  For the transportation of materials or products							
P. How is the aircraft used for business (please rank each separately of the transportation of business personnel							
9. How is the aircraft used for business (please rank each separately of To make commercial airline connections	 - - Grass□. Annual cost for storage \$						
9. How is the aircraft used for business (please rank each separately of To make commercial airline connections  For the transportation of business personnel  For the transportation of materials or products	 - - Grass□. Annual cost for storage \$						
O. How is the aircraft used for business (please rank each separately on To make commercial airline connections	 - - Grass□. Annual cost for storage \$						
O. How is the aircraft used for business (please rank each separately on To make commercial airline connections	Grass □. Annual cost for storage \$  your aircraft \$  Based airport □, In state □, Out of state □. Please indicate						
O. How is the aircraft used for business (please rank each separately of To make commercial airline connections	arass □. Annual cost for storage \$  your aircraft \$  Based airport □, In state □, Out of state □. Please indicate  t of state □, Corporate self fuel □. Please indicate Airport						
D. How is the aircraft used for business (please rank each separately on To make commercial airline connections	Brass . Annual cost for storage \$  your aircraft \$  Based airport . In state . Out of state . Please indicate  It of state . Corporate self fuel . Please indicate Airport  year						
D. How is the aircraft used for business (please rank each separately on To make commercial airline connections	Grass □. Annual cost for storage \$  your aircraft \$  Based airport □, In state □, Out of state □. Please indicate  It of state □, Corporate self fuel □. Please indicate Airport  year  ome based airport (please rank each separately on a scale of 5 to 0, 5 being aircraft parking ramps, Airfield and Approach Lighting,						
D. How is the aircraft used for business (please rank each separately on To make commercial airline connections	Grass . Annual cost for storage \$  your aircraft \$  Based airport . In state . Out of state . Please indicate  It of state . Corporate self fuel . Please indicate Airport  year  ome based airport (please rank each separately on a scale of 5 to 0, 5 being aircraft parking ramps, Airfield and Approach Lighting,						





		number of responses	% of respondents	3
3. Owners	ship of Aircraft			
	Private	80	66%	
	Joint ownership	13	11%	
	Business	28	23%	
	Total	121	100%	
4. How is	the aircraft primarily used?			
	Business	37	27%	
	Recreation	92	68%	
	Air Taxi	3	2%	
	Training	3	2%	
	Total	135	100%	
10. How i	s the aircraft stored			
	Hangar	66	52%	
	T-Hangar	26	21%	
	Ramp	27	21%	
	Grass	7	6%	
	Total	126	100%	
12. Where	e is maintenance conducted?			
	Based Airport	78	61%	
	In State	24	19%	
	Out of State	26	20%	
	Total	128	100%	
13. Where	e is fuel primarily purchased?			
	Based Airport	90	68%	
	In State	31	23%	
	Out of State	10	8%	
	Corp. self fuel	2	2%	
	Total	133	100%	
		Ranking scale	# of responses	% of respondants
	Restaurant	0	23	19%
		1	13	11%
		2	16	13%
		3	32	27%
		4	20	17%
		5	16	13%
	Total		120	100%
	Fuel cost	0	12	10%
		1	2	2%
		2	5	4%
		3	20	17%
		4	30	25%
		5	51	43%
	Total		120	100%
		_		
	Instrument approaches	0	39	33%
		1	2	2%
		2	4	3%
		3	19	16%
		4	14	12%







			11776
	5	42	35%
Total	-	120	100%
rotar		720	10070
FBO Services	0	20	17%
	1	4	3%
	2	13	11%
	3	27	23%
	4	27	23%
	5	29	24%
T: (: )	3		
Total		120	100%
Convenient for business	0	57	48%
	1	3	3%
	2	8	7%
	3	18	15%
	4	15	13%
	5	19	16%
Total		120	100%
Daved Dunwaya	0	29	24%
Paved Runways			
	1	6	5%
	2	7	6%
	3	8	7%
	4	15	13%
	5	55	46%
Total		120	100%
9. How is the aircraft used for business?			
Commercial airline connections	0	107	89%
	1	6	5%
	2	3	3%
	3	2	2%
	4	1	1%
	5	1	1%
	5		
Total		120	100%
Transport of personnel	0	86	72%
Transport of personner			
	1	3	3%
	2	0	0%
	3	4	3%
	4	4	3%
	5	23	19%
Total		120	100%
Transport of materials	0	02	78%
Transport of materials	0	93	
	1	2	2%
	2	7	6%
	3	9	8%
	4	3	3%
	5	6	5%
Total		120	100%
7000		, 20	.0070
Fly direct to business clients	0	84	70%
	1	0	0%
	- -	-	<del></del>





Division of Aeronautics			Washington and the same of the
	2	1	1%
	3	3	3%
	4	4	3%
	5	28	23%
Total		120	100%
15. What additional facilities do you believe are airport?	e needed at you	r home base	
More hangar space	0	47	39%
	1	2	2%
	2	1	1%
	3	11	9%
	4	6	5%
	5	53	44%
Total		120	100%
Longer runways	0	86	72%
-	1	4	3%
	2	5	4%
	3	9	8%
	4	6	5%
	5	10	8%
Total		120	100%
More aircraft parking ramps	0	73	61%
	1	2	2%
	2	14	12%
	3	13	11%
	4	9	8%
	5	9	8%
Total		120	100%
Airfield and Approach Lighting	0	82	68%
	1	8	7%
	2	4	3%
	3	5	4%
	4	6	5%
	5	15	13%
Total		120	100%
Instrument Approaches	0	85	71%
• •	1	3	3%
	2	3	3%
	3	7	6%
	4	5	4%
	5	17	14%
Total		120	100%

16. If flying in the north country of NH, does the Yankee One/Two MOA restrictions affect your flying?

Yes 25 No 95 *Total* 120







Appendix 4-B – Itinerant Aircraft Survey





# ITINERANT AIRCRAFT SURVEY

1.	Name of Airport where you flew into today:	FROM NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION DIVISION OF
2.	Please indicate the type of aircraft you flew for this flight?	<b>AERONAUTICS</b> : In an effort to provide an effective statewide aviation
3.	Where is aircraft based?	program the Division of Aeronautics has retained an aviation consultant to update the State Airport System
4.	Please list the origination airport where you started your trip.	Plan. As a part of this study an aircraft owner survey has been developed to inquire how the aviation industry uses airport services that are provided within the state.
5.	Ownership of the aircraft?(Private $\  \  \  \  \  \  \  \  )$ (Fractional Share $\  \  \  \  \  \  \  \  )$ (Business $\  \  \  \  \  \  \  \  \  \  \  \  \ $	The information that is received will be kept in strict confidence and will only be used to generate the final report. Please fill out and return this survey to us by
6.	How is the aircraft primarily used? (Business $\mathbb{I})(Recreational\mathbb{I})$ (Air Taxi $\mathbb{I})(Training \mathbb{I})$	September 7, 2001. No postage is needed. We thank you in advance for your cooperation. Happy flying and
	pe and location of business	<u> </u>
	tal number of employees of the companytal amount you spend for business air travel per year \$	
ea Re Co	How important do you rank the following airport facilities (please rank ch separately on a scale of 5 to 0, 5=most important and 0=least imports at a scale of 5 to 0, 5=most important and 0=least imports at a scale in ports at a scale of 5 to 0, 5=most important and 0=least imports at a scale in ports at a scale in port and a scale in port what airport services were used?  During your visit to this airport what airport services were used?  el I, Tiedown I, Hangar Rental I, Maintenance I, Rental Car I, FBO pi Air Carrier Terminal II.	, Quality of FBO Services,
10	. Did you overnight during your stay in the area? Yes I, No I.	
11	. Approximately how much did you spend during your visit? \$	·
	. Why did you fly to this airport? (please rank each separately on a s	cale of 5 to 0, 5=most important and 0=least
	make commercial airline connections	
Fo	r the transportation of business personnel	
Fo	r the transportation of materials or products	
То	fly directly to business clients to save time	
Ot	her	
	. What additional airport facilities need to be enhanced at the airport parately on a scale of 5 to 0, 5=most important and 0=least important)  More hangar space, Longer runways, More aircraft Lighting, Instrument Approaches, Other	parking ramps, Airfield and Approach
14	. Please list the New Hampshire airports that you visit frequently during	
		·
	ase fill out all the questions, fold and tape the end and return it postage free by Septer ply Mail address is on the outside of the envelope. THANK YOU.	nber 7, 2001. Please make sure the return Business







Appendix 4-C – Business Survey







Edward and Kelcey and RKG Associates, Inc, - are working with the New Hampshire Department of Transportation's Division of Aeronautics to update the State Airport System Plan. The goal of the State Airport System Plan is to identify the role airports play within the New Hampshire economy. As a business owner/manager, we would like to have your input on how your <u>local</u> airport influences your business operations. Please be assured that your responses will be kept in strictest confidence, to be aggregated with all other responses.

**Business Survey** 

	t System Update		New Hamp	shire
	ss Location (City/Town):			
	s in Business:			
	s at This Location:			
	cations: loyees at This Location:		<del>_</del>	
# Empl				
·	•		_	
1)	What type of business do	you do? (Please Check One)		
	☐ Construction	■ Manufacturing	(Durable Goods)(Durable, Non-Durable)	
	Retail Trade		(Non-Durable Goods)	
	■ Wholesale Trade	Business Servi	ces	nsurance and Real Estate
	☐ Personal Services	☐ Service		
	☐ Government	<b>□</b> Other		
1B)	If possible, please indicate which	ch 4-digit Standard Industrial Cl	lassification (SIC) code your business fa	lls under
0)	la como horala a sa allos allos actallo			and the second s
2)	are generated from aviation-re		th aviation products or services or a major DNo	only of your business revenues
3)			ur business?	
	If unknown, please skip to Ques	stion 6		
	(Most people are not aware of a think it would be beneficial if the state of the st		em and would not think to include unless knowledge of a GA airport)	they were using it for business
4)	How far away is this airport to y	our business? (Please Select	One)	
	☐ Located on Airport Property	☐ Under 1 mile	☐ 1 to 5 miles	
	☐ 6 to 10 miles	■ 11 to 25 miles	□ 25+ miles	
5)	Do you currently use this airpor			
5)			oses?	
5) 5A)		/hy? Go to Question 6		
	☐ Yes ☐ No W	/hy? Go to Question 6	neck All That Apply)	
	☐ Yes ☐ No W For what purposes does your b	hy? <b>Go to Question 6</b> ousiness utilize this airport? <b>(Ch</b> □ Delivering Proc	neck All That Apply)	
	☐ Yes ☐ No W  For what purposes does your b  ☐ Transporting Staff ☐ Transporting Clients ☐ Store/Service Corporate Airc	hy? <b>Go to Question 6</b> ousiness utilize this airport? <b>(Ch</b> □ Delivering Proc □ Rec craft □ Aviation Relate	neck All That Apply)	
	☐ Yes ☐ No W  For what purposes does your b  ☐ Transporting Staff ☐ Transporting Clients	hy? <b>Go to Question 6</b> ousiness utilize this airport? <b>(Ch</b> □ Delivering Proc □ Rec craft □ Aviation Relate	neck All That Apply) ducts peiving Supplies	
	☐ Yes ☐ No W  For what purposes does your b  ☐ Transporting Staff ☐ Transporting Clients ☐ Store/Service Corporate Airc	ousiness utilize this airport? (Ch ☐ Delivering Proc ☐ Rec Craft ☐ Aviation Relate	ducts eeiving Supplies du Business (explain)	
5A)	☐ Yes ☐ No W  For what purposes does your b  ☐ Transporting Staff ☐ Transporting Clients ☐ Store/Service Corporate Airc ☐ Other (explain)	ousiness utilize this airport? (Ch ☐ Delivering Proc ☐ Rec Craft ☐ Aviation Relate	ducts eeiving Supplies du Business (explain)	ar □ 11+ Times per Year
5A) 5B)	□ Yes □ No W For what purposes does your b □ Transporting Staff □ Transporting Clients □ Store/Service Corporate Airc □ Other (explain)  How often do you use this airpo □ Once a Year	ousiness utilize this airport? (Chaptering Procured Aviation Related Procured Total Total Times per Year	ducts serving Supplies ad Business (explain)  eck One)	·
5A)	□ Yes □ No W For what purposes does your b □ Transporting Staff □ Transporting Clients □ Store/Service Corporate Airc □ Other (explain)  How often do you use this airpo □ Once a Year	ousiness utilize this airport? (Chaptering Procured Aviation Related Procured Total Total Times per Year	ducts serving Supplies de Business (explain)	? (Check All That Apply)







6) 7)	Does your company ☐ Yes (please s	charter/own/rent aircraft pecify)	for business purposes? to question 7)		
6A)	If you own an aircra Type of aircraft own Where the aircraft is What NH airports ar Number of trips mor	ed: based: e used:			
6B)	If you rent/charter a	rcraft for business use, p	lease indicate what airport is	used:	
	Please indicate the Monthly Annually	number of trips you use a	an aircraft for businesses pur	poses based upon the Questions 6E	3
7)	Does your company ☐ Yes	use one of New Hampsl ☐ No (If No, Go to Qu		anchester, Pease and Lebanon) for	business purposes?
7A)	If you have used on	e of the state's commerci	ial airports, please indicate w	hich one(s) you have used. (Check	All That Apply)
	☐ Manchester Airpo	ort 📮 Pease Ti	radeport 🖵 Leba	anon Airport	
7B)	☐ Transporting State ☐ Transporting Clie ☐ Store/Service Co	nts [		(Explain)	
7C)	How often do you us	se this airport for busines	s purposes? (Check One)		
	☐ Once a Year	☐ 1 to 5 Tir	mes per Year	☐ 6 to 10 Times per Year	☐ 11+ Times per Yea
8)	Please rank the follo	owing criteria in terms of	which were most important in	selecting the current location for yo	ur business:
Highway Skilled L Construct Labor Co Energy A Tax Exer Airport A Availability ocation (	ction Costs osts Availability and Cost	Very Important  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Important   2   2   2   2   2   2   2   2   2	Somewhat Important 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Unimportant 4 4 4 4 4 4 4 4 4 4 4 4 4 4
	——————————————————————————————————————	1	2	3	4
In the sp	ace below, please pro	vide us your comments o	n the impact of your local air	port on your business:	

THANK YOU FOR YOUR ASSISTANCE IN COMPLETING THIS SURVEY. YOUR RESPONSES WILL HELP DETERMINE THE ROLE THAT AIRPORTS PLAY WITHIN NEW HAMPSHIRE'S ECONOMY. IF YOU HAVE ANY QUESTIONS REGARDING THE SURVEY OR PROJECT, PLEASE CALL DARREN MOCHRIE AT RKG ASSOCIATES, INC. AT (800) 555-7541. PLEASE MAIL OR FAX THE COMPLETED SURVEY FORMS BY (INSERT DATE HERE) TO:

Darren Mochrie RKG Associates, Inc. 277 Mast Road Durham, New Hampshire 03824 Fax: (603) 868-6463







**Appendix 5-A – Regional Economic Performance Measures** 







# Change in Employment, Population and Per Capita Income: 1990-1999/2000

	New	Hampshire E	conomic Reg	ions	
Dagian			Population	1	
Region	1990	2000	# Change	% Change	Score
Rockingham	160,231	180,866	20,635	12.9%	9
South	216,479	240,815	24,336	11.2%	8
Nashua	171,478	190,088	18,610	10.9%	7
Lakes	86,100	94,690	8,590	10.0%	6
Central	95,836	104,152	8,316	8.7%	5
Stafford	120,510	129,663	9,153	7.6%	4
Upper Valley	76,573	81,326	4,753	6.2%	3
North Country	76,573	81,326	4,753	6.2%	2
Southwest	88,342	92,652	4,310	4.9%	1
Dagian			Employme	nt	
Region	1990	1999	# Change	% Change	Score
Central	57,820	73,780	15,960	27.6%	9
Lakes	25,300	29,320	4,020	15.9%	8
Rockingham	134,880	149,810	14,930	11.1%	7
North Country	55,380	60,590	5,210	9.4%	6
South	96,090	103,010	6,920	7.2%	5
Upper Valley	39,970	42,820	2,850	7.1%	4
Nashua	93,560	97,430	3,870	4.1%	3
Stafford	54,420	56,330	1,910	3.5%	2
Southwest	37,150	37,440	290	0.8%	1
Dagian		Po	er Capita Inc	come	
Region	1990	2000	<b>\$ Change</b>	% Change	Score
Rockingham	\$18,212	\$28,709	\$10,497	57.6%	9
Upper Valley	\$14,806	\$22,781	\$7,975	53.9%	8
South	\$16,492	\$24,946	\$8,454	51.3%	7
Stafford	\$14,086	\$21,244	\$7,158	50.8%	6
Central	\$15,826	\$23,453	\$7,627	48.2%	5
Nashua	\$18,617	\$27,237	\$8,620	46.3%	4
Southwest	\$14,349	\$20,824	\$6,475	45.1%	3
North Country	\$12,404	\$17,843	\$5,439	43.8%	2
Lakes	\$13,771	\$18,976	\$5,205	37.8%	1
Source: Claritas, Inc	., New Hampshire	Employment Sec	curity and RKC	Associates, Inc.	





			Relationship Between Reg	gional Economi	c Growth and Current and	l Projected A	irport Ec	onomic Impact			
				N	New Hampshire Airports						
Overall Ranking	Region	Mean Regional Ec. Growth Score	Name	Ownership	Location	# Runways	Surface Type	Runway Length (ft)	Projected Operations	Projected Based Aircraft	Estimated Airport Ec. Impact*
1	D - alain alaan	0.2	Hampton Airfield	Private	Hampton	1	Turf	2,100	Positive	Positive	Low
1	Rockingham	8.3	Pease Tradeport	Public	Portsmouth/Newington	1	Asphalt	11,300	Positive	Positive	High
2	South	6.7	Manchester	Public	Manchester	2	Asphalt	7,573 & 7,001	Positive	Positive	High
3	Central	6.3	Concord Municipal	Public	Concord	2	Asphalt	3,200 & 6,005	Positive	Positive	High
			Laconia Mun. Airport	Public	Laconia	1	Asphalt	5286	Positive	Positive	High
4	Lakes	5.0	Lakes Region	Private	Wolfeboro	1	Asphalt	2,540	Positive	Positive	Low
4	Lakes	3.0	Newfound Valley	Private	Bristol	1	Asphalt	1,800	Positive	Positive	Low
			Moultonboro Airport	Private	Moultonboro	1	Asphalt	3625	Positive	Positive	Low
			Lebanon Mun. Airport	Public	Lebanon	2	Asphalt	5,496 & 5,200	Positive	Positive	Medium
5	Upper Valley	5.0	Parlin Field	Public	Newport	2	Turf & Asphalt	1,950 & 3,450	Positive	Positive	Low
			Claremont Mun. Airport	Public	Claremont	1	Asphalt	3,100	Positive	Positive	Medium
6	Nashua		Boire Field	Public	Nashua	1	Asphalt	5,500	Positive	Positive	High
7	Strafford	4.0	Skyhaven Airport	Public	Rochester	1	Asphalt	4,001	Positive	Positive	Low
			Berlin Mun. Airport	Public	Berlin	1	Asphalt	5,200	Positive	Positive	Medium
			Colebrook Airport	Private	Colebrook	1	Turf	2,440	Positive	Stable	Low
			Errol Airport	Private	Errol	1	Gravel	3,680	Positive	Stable	Low
			Franconia Airport	Private	Franconia	1	Turf	2,305	Positive	Positive	Low
8	North Country	3.3	Gorham Airport	Public	Gorham	1	Turf	2,800	Positive	Stable	Low
			Mt. Wash. Regional	Public	Whitefield	1	Asphalt	3,495	Positive	Positive	Medium
			Plymouth Mun. Airport	Public	Plymouth	1	Turf	2,380	Positive	Positive	Low
			Twin Mountain Airport	Private	Twin Mountain	1	Asphalt	2,640	Positive	Stable	Low
			Dean Memorial Airport	Public	Pike	1	Asphalt	2,500	Positive	Positive	Low
			Dillant-Hopkins	Public	Keene	2	Asphalt	6,201 & 4,001	Positive	Positive	Medium
9	Southwest	1.7	Hawthorne-Feather	Private	Antrim	1	Asphalt	3,260	Positive	Positive	Low
			Jaffrey-Silver Ranch	Private	Jaffrey	1	Asphalt	2,982	Positive	Positive	Low
*Based on	results of airport	economic im	pact analysis model								







	2000	2001		2002		2003		2004		2002		2006	
New Hampshire	1,195,579	1,230,000		1,241,000		1,263,000		1,268,000		1,285,000		1,301,705	
% Change		2.88%		0.89%		0.97%		1,20%		1.34%		1.30%	
# Change		34,421		11,000		12,000		15,000		17,000		16,705	
Central	104,152	3,442	0.10	1,100	0.10	1,200	0.10	1,500	0.10	2,550	0.15	2,506	0,15
akes	94,690	3,442	0.10	1,100	0.10	1,200	0.10	1,500	0.10	2,550	0.15	2,506	0,15
Vashua	190,088	6.884	0.20	2,200	0.20	2,400	0.20	2,250	0,15	2,550	0.15	2,508	0,15
North Country	81,327	o	00.0	0	0.00	0	00.0	750	50'0	850	0.05	835	0.05
Rockingham	180,865	8,605	0.25	2,750	0.25	3,000	0,25	3,000	0.20	2,550	0.15	2,506	0.15
South	240,815	8,605	0.25	2,750	0.25	3,000	0.25	3,000	0.20	2,550	0.15	2,506	0.15
Southwest	92,652	0	00:0	0	0.00	0	0.00	750	0.05	850	0.05	835	0.05
Strafford	129,663	1,721	0.05	920	0.05	2009	90.0	1,500	0.10	1,700	0.10	1,671	0.10
pper Valley	81,326	1,721	0.05	550	0.05	600	0.05	750	0.05	850	0.05	835	0.05
				11,000	1.00	12,000	1.00	15,000	1.00	17,000	1.00	16,705	1.00
	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010		
Central	104,152	107,594	108,694	109,894	111,394	113,944	116,450	118,986	121,757	124,565	127,616		
akes	94,690	98,132	99,232	100,432	101,932	104,482	106,988	109,525	112,295	115,103	119,171		
Vashus	190,088	196,972	199,172	201,572	203,822	206,372	208,878	211,416	213,262	215,134	216,151		
North Country	81,327	81,327	81,327	81,327	82,077	82,927	83,762	84,608	85,531	86,467	87,484		
Rockingham	180,866	189,471	192,221	195,221	198,221	200,77.1	203,277	204,969	206,815	208,687	210,721		
South	240,815	249,420	252,170	255,170	258,170	260,720	263,226	265,764	267,610	269,482	271,516		
Southwest	92,652	92,652	92,652	92,652	93,402	94,252	95,087	95,933	97,779	99,651	101,685		
trafford	129,663	131,384	131,934	132,534	134,034	135,734	137,405	139,943	142,712	145,520	148.570		
Ipper Valley	81,326	83,047	83,597	84,197	84,947	85,797	86,632	87,478	89,324	91,195	93,230		
Vew Harnpshire.	1,195,579	1,230,000	1,241,000	1,253,000	1,268,000	1,285,000	1,301,705	1,318,627	1,337,088	1,355,807	1,376,144		

Notes:
The population forecast is based on population estimates of 2001 and beyond.
The 2000 population estimate used in the report slightly understates the actual census population estimate used in the report slightly understates the actual census population estimate used in this forecast is close to the actual population estimate used in this forecast is close to the actual population estimate used in this forecast are the most reliable.

The 2002 to 2010 population estimates in this forecast are the most reliable.





# AIRPORT ECONOMIC IMPACT SUMMARY

# CONCORD MUNICIPAL AIRPORT

### **Economic Benefits**

- 30 aviation dependent jobs
- 2 known aviation dependent businesses
- 81 based aircraft
- 50,430 estimated annual operations
- Used by NASCAR racing team flight departments during racing weekends at the New Hampshire International Speedway
- Relied upon as a transportation asset by local and regional businesses
- Strong public utility asset for emergency medical, government and military use
- Provides access to the national aviation system for recreational and corporate flyers
- Provides linkage to the New Hampshire Capital region for transient flyers
- Supports New Hampshire National Guard unit

# **Economic Summary**

The Concord Airport is an excellent example of a general aviation airport which serves in a multitude of capacities and is financially self-sufficient. Straddled within a geographic market area between Manchester Airport and Laconia Airport, Concord Airport is home to many corporate, government, military and recreational aircraft. The economic impact of the facility is substantial as over 50 NASCAR racing teams fly into the facility during race weekends at the New Hampshire International Speedway in Loudon. Additionally, the many corporate based aircraft and transient corporate flights which regularly use the facility positively impact the regional economy.

# **Airport Impact**

It should be noted that the methodology used to determine the economic impact of each New Hampshire airport is summarized as the Airport Economic Impact Analysis within Chapter Five of the *New Hampshire State Airport System Plan Update*.

Tourism Support – Medium Business Support – High Public Utility - High







# AIRPORT ECONOMIC IMPACT SUMMARY

# **NEWFOUND VALLEY - BRISTOL**

### **Economic Benefits**

- 7 based aircraft (increases to 12 during the summer months)
- Acts as a gateway to attractions and sites within the Newfound Lake region
- Occasional use of the airport by a local machine shop for distribution of machine parts and accessories

# **Economic Summary**

As an airport with a relatively short runway, the facility primarily serves as the gateway to the Newfound Lake region for transient recreational flyers. The airport is occasionally used by a local business to distribute machined parts throughout New England and neighboring states.

# **Airport Impact**

It should be noted that the methodology used to determine the economic impact of each New Hampshire airport is summarized as the Airport Economic Impact Analysis within Chapter Five of the *New Hampshire State Airport System Plan Update*.







# AIRPORT ECONOMIC IMPACT SUMMARY

# LACONIA MUNICIPAL AIRPORT

### **Economic Benefits**

- 30 aviation dependent jobs
- 5 known aviation dependent businesses
- 97 based aircraft
- 34,898 estimated annual operations
- Used by NASCAR racing team flight departments during racing weekends at the New Hampshire International Speedway
- Used by some entertainers and patrons at the nearby Meadowbrook Farm Arts Center
- Relied upon as a transportation asset by local and regional businesses
- Strong public utility asset for emergency medical, government and military use
- Provides access to the national aviation system for recreational and corporate flyers
- Provides linkage to the lakes region for transient flyers

# **Economic Summary**

The Laconia Municipal Airport, located in the heart of New Hampshire's famous Lake Winnipesaukee lakes region, is one of the best examples of a financially self-sufficient, medium sized airport that can handle aircraft ranging from small single engine to small corporate jets. With the longest runway in the Lakes Region, an Instrument Landing System, and three fixed base operators, Laconia Municipal Airport hosts several corporate based aircraft as well as military training operations, medical emergency and government operations. The economic impact of the airport is substantial as many NASCAR racing teams fly into the facility during race weekends at the New Hampshire International Speedway in Loudon as well as many entertainment acts during shows at the neighboring Meadowbrook Farm Arts Center. The airport is also used by visitors with seasonal homes within the Lakes Region.

# **Airport Impact**

It should be noted that the methodology used to determine the economic impact of each New Hampshire airport is summarized as the Airport Economic Impact Analysis within Chapter Five of the *New Hampshire State Airport System Plan Update*.

Tourism Support – High Business Support – High Public Utility - Medium







# AIRPORT ECONOMIC IMPACT SUMMARY

# LAKES REGION WOLFBORO AIRPORT

# **Economic Benefits**

- 6 based aircraft (including 2 business aircraft used by a local air photo and mapping company)
- Provides linkage and access to Wolfboro and the lakes region
- Provides access to the national aviation system for recreational flyers

# **Economic Summary**

This privately owned facility is used primarily as an access point for Wolfboro and the lakes region for transient recreational flyers. A local air photo and mapping company bases two planes at the airport during the summer months.

# **Airport Impact**

It should be noted that the methodology used to determine the economic impact of each New Hampshire airport is summarized as the Airport Economic Impact Analysis within Chapter Five of the *New Hampshire State Airport System Plan Update*.







# AIRPORT ECONOMIC IMPACT SUMMARY

# MOULTONBOROUGH AIRPORT

# **Economic Benefits**

- 15 based aircraft (approximately 7 to 8 additional based aircraft during the summer months)
- Provides access to the national aviation system for recreational flyers
- Provides access to the Moultonborough and Lakes Region for recreational flyers

# **Economic Summary**

This privately owned facility is used primarily as an access point for Moultonborough and the Lakes Region for transient recreational flyers.

# **Airport Impact**

It should be noted that the methodology used to determine the economic impact of each New Hampshire airport is summarized as the Airport Economic Impact Analysis within Chapter Five of the *New Hampshire State Airport System Plan Update*.







# AIRPORT ECONOMIC IMPACT SUMMARY

# **BOIRE FIELD**

### **Economic Benefits**

- 400 based aircraft (including 22 corporate jet aircraft)
- Estimated 200 aviation dependent jobs
- Estimated 1999 economic impact of over \$21 million
- Daniel Webster College flight training facility
- Many corporate based aircraft from Massachusetts firms which take advantage of lower fuel and service costs and tax savings
- 123,000 estimated operations
- Heavily relied upon as a transportation asset by local and regional (northern Massachusetts) businesses
- Strong public utility asset for emergency medical, government and military use as well as by City of Nashua police, fire and public works departments
- Provides access to the national aviation system for recreational flyers
- Provides linkage to southern New Hampshire and attractions for transient flyers

# **Economic Summary**

As one of the busiest airports in the state, Boire Field in Nashua is one of the finest examples of a large general aviation facility that contributes significantly to the local, regional and state economies. With a significant portion of the approximately 400 aircraft based at Boire Field used for business purposes, it is estimated that the facility supports about 200 aviation dependent jobs directly on site. Geographically, the airport is ideally located within close proximity to southern New Hampshire's urban population base as well as communities in north central Massachusetts. Due to prudent airport management and the revenues generated through land leases, tie-downs and fuel flow fees, the airport has managed to become financially self-sufficient.

# **Airport Impact**

It should be noted that the methodology used to determine the economic impact of each New Hampshire airport is summarized as the Airport Economic Impact Analysis within Chapter Five of the *New Hampshire State Airport System Plan Update*.

Tourism Support – Low Business Support – High Public Utility - Medium







# AIRPORT ECONOMIC IMPACT SUMMARY

# BERLIN MUNICIPAL AIRPORT

# **Economic Benefits**

- 26 based aircraft
- 14,000 estimated operations
- Relied upon as a transportation asset by local and regional businesses
- Strong public utility asset for emergency medical, government and military use
- Provides access to the national aviation system for recreational flyers
- Provides linkage to local and regional sites and attractions for transient flyers

# **Economic Summary**

As the largest airport in the North Country region, the facility fulfills a variety of aviation, public utility, tourism and business support roles. With the longest runway in the region and available jet-A fuel, the facility hosts a variety of regular corporate users, military training operations, medical emergency and government operations. For example, during the negotiations for the purchase and reopening of the Berlin and Gorham paper mills, which are the region's biggest employer, the airport hosted visits by potential investors and financial support staff.

# **Airport Impact**

It should be noted that the methodology used to determine the economic impact of each New Hampshire airport is summarized as the Airport Economic Impact Analysis within Chapter Five of the *New Hampshire State Airport System Plan Update*.

Tourism Support – Low Business Support – Medium Public Utility - Medium







# AIRPORT ECONOMIC IMPACT SUMMARY

# **COLEBROOK AIRPORT**

# **Economic Benefits**

- 6 based aircraft
- Estimated 1,500 annual operations
- Provides access to the national aviation system for recreational flyers
- Provides linkage to local and regional sites and attractions (Balsams Resort, local golf courses, fishing) for transient flyers

# **Economic Summary**

Although the Colebrook Airport has a relatively short turf runway, many transient flyers enjoy the unique rural character (like flying back in history) of the facility as well as local and regional tourist destinations.

# **Airport Impact**

It should be noted that the methodology used to determine the economic impact of each New Hampshire airport is summarized as the Airport Economic Impact Analysis within Chapter Five of the *New Hampshire State Airport System Plan Update*.







# AIRPORT ECONOMIC IMPACT SUMMARY

# **ERROL AIRPORT**

### **Economic Benefits**

- 6 based aircraft
- Estimated 750 annual operations
- Provides access to the national aviation system for recreational flyers
- Provides linkage to the Umbagog Lake and surrounding area

# **Economic Summary**

As an airport with a relatively long, gravel runway, the facility serves as an access point to local and regional sites and attractions for transient recreational flyers. The airport neighbors Umbagog Lake which is considered one of the most unique and untouched natural settings in New Hampshire.

# **Airport Impact**

It should be noted that the methodology used to determine the economic impact of each New Hampshire airport is summarized as the Airport Economic Impact Analysis within Chapter Five of the *New Hampshire State Airport System Plan Update*.







# AIRPORT ECONOMIC IMPACT SUMMARY

# FRANCONIA AIRPORT

### **Economic Benefits**

- Estimated 4,500 annual operations
- Strong tourism linkage with neighboring Franconia Inn which provides guests with opportunity to glide via Franconia Soaring Association
- Provides access to national aviation system for recreational flyers
- 12 based aircraft (11 gliders)

# **Economic Summary**

The Franconia Airport, although one of the smallest facilities in the state in terms of runway length, is an excellent example of a facility which has established a unique identity for itself based on its geographic location and regional market. The facility's owners have capitalized on its proximity to the Franconia Inn, a well know bed and breakfast inn in the region, to provide guests the opportunity of a once-in-a-lifetime experience of gliding in the White Mountains.

# **Airport Impact**

It should be noted that the methodology used to determine the economic impact of each New Hampshire airport is summarized as the Airport Economic Impact Analysis within Chapter Five of the *New Hampshire State Airport System Plan Update*.







# AIRPORT ECONOMIC IMPACT SUMMARY

# **GORHAM AIRPORT**

### **Economic Benefits**

- Estimated 1,000 annual operations
- 4 based aircraft
- Provides access to the national aviation system for recreational flyers
- Provides linkage to the Mount Washington Region's natural and scenic assets for transient flyers

# **Economic Summary**

As an airport with a relatively short, turf runway, the facility serves as an access point to the Mount Washington region's noted lodging, skiing and outdoor attractions for transient recreational flyers.

# **Airport Impact**

It should be noted that the methodology used to determine the economic impact of each New Hampshire airport is summarized as the Airport Economic Impact Analysis within Chapter Five of the *New Hampshire State Airport System Plan Update*.









# AIRPORT ECONOMIC IMPACT SUMMARY

# **DEAN MEMORIAL AIRPORT**

### **Economic Benefits**

- Provides access to the national aviation system for recreational flyers
- Provides linkage to local and regional sites and attractions for transient flyers

# **Economic Summary**

As an airport with a relatively short, turf runway, the facility serves as an access point to local and regional sites and attractions for transient recreational flyers. Although corporate operations are not predominant at the facility, Municipal officials indicate that the development of the neighboring industrial park and potential future lengthening of the runway may attract some business flights.

# **Airport Impact**

It should be noted that the methodology used to determine the economic impact of each New Hampshire airport is summarized as the Airport Economic Impact Analysis within Chapter Five of the *New Hampshire State Airport System Plan Update*.







# AIRPORT ECONOMIC IMPACT SUMMARY

# MOUNT WASHINGTON REGIONAL AIRPORT

### **Economic Benefits**

- 36 aviation dependent jobs
- 3 aviation dependent businesses including Presby Environmental Plastics Limited located in the neighboring industrial park
- 36 based aircraft
- Annual operations estimated at 2,500
- Strong tourism linkage with regional hotels, resorts and ski areas including the Mountain View Grand and Bretton Woods Resort
- Provides access to national air system for recreational flyers
- Provides transportation access as a public utility for government, emergency and medical aviation operations

# **Economic Summary**

Mount Washington Regional Airport in Whitefield, is arguably one of the best examples of a well-managed, small general aviation airport facility which provides a variety of transportation services in support of the regional economy. Due to the identified regional impact of the facility, the ten member Mount Washington Airport Commission serves a model for similar airport facilities throughout the state in that member communities share in the airport's financial risk, but also benefit from having the facility nearby.

# **Airport Impact**

It should be noted that the methodology used to determine the economic impact of each New Hampshire airport is summarized as the Airport Economic Impact Analysis within Chapter Five of the *New Hampshire State Airport System Plan Update*.

Tourism Support - Medium Business Support - Medium Public Utility - Low





# AIRPORT ECONOMIC IMPACT SUMMARY

# PLYMOUTH MUNICIPAL AIRPORT

### **Economic Benefits**

- 8 based aircraft (16 during summer months)
- Provides access to the national aviation system for recreational flyers
- Provides linkage to local and regional sites and attractions for transient flyers

# **Economic Summary**

A recent study completed by the Town of Plymouth indicated positive support for the airport with the facility primarily being a tourism asset. The increase in based aircraft during the summer months is attributed primarily to the large number of seasonal residential units in the Plymouth region.

# **Airport Impact**

It should be noted that the methodology used to determine the economic impact of each New Hampshire airport is summarized as the Airport Economic Impact Analysis within Chapter Five of the *New Hampshire State Airport System Plan Update*.







# AIRPORT ECONOMIC IMPACT SUMMARY

# TWIN MOUNTAIN AIRPORT

# **Economic Benefits**

- Estimated 1,000 annual operations
- Provides access to lodging, hiking, and skiing amenities located within the Franconia region
- Provides access to national aviation system for recreational flyers
- 3 based aircraft

# **Economic Summary**

The Twin Mountain Airport is geographically located in one of the most mountainous and scenic locations in the state – quintessential New Hampshire. Many resorts, including the world famous Mount Washington Hotel, are located with the area.

# **Airport Impact**

It should be noted that the methodology used to determine the economic impact of each New Hampshire airport is summarized as the Airport Economic Impact Analysis within Chapter Five of the *New Hampshire State Airport System Plan Update*.







# AIRPORT ECONOMIC IMPACT SUMMARY

# **HAMPTON AIRFIELD**

# **Economic Summary**

Hampton Airfield's turf facilities are home to approximately 70 based aircraft which are primarily used for recreational purposes. Many flyers that use the facility take advantage of the seasonal homes and lodging facilities within the area.

# **Airport Impact**

It should be noted that the methodology used to determine the economic impact of each New Hampshire airport is summarized as the Airport Economic Impact Analysis within Chapter Five of the *New Hampshire State Airport System Plan Update*.





# AIRPORT ECONOMIC IMPACT SUMMARY

# PEASE INTERNATIONAL TRADEPORT

### **Economic Benefits**

- 70 based aircraft
- Over 1,100 aviation dependent jobs at 21 aviation dependent business establishments
- Estimated 24,860 annual operations
- Commercial air service linkage to regional hubs
- New Hampshire Air National Guard air refueling wing
- Provides access to the national aviation system for recreational flyers
- Provides linkage to the New Hampshire Seacoast and northeastern Massachusetts regions' attractions for transient flyers

# **Economic Summary**

Pease International Tradeport is only one of three commercial airports (Manchester Airport and Lebanon Airport) in New Hampshire. The most unique feature of the former U.S. Air Force facility is the fact that it has the longest runway in the state (11,321 feet) – capable of handling aircraft of all sizes (up to and including the space shuttle). Pease's economic impact on the region and state is significant as it is home to 21 aviation dependent businesses with over 1,100 aviation dependent jobs. In addition to commercial passenger (Pan Am Airlines), cargo, and corporate general aviation flight operations based there, Pease is home to the New Hampshire Air National Guard's KC-135 air refueling wing that provides vital air refueling for military aircraft.

# **Airport Impact**

It should be noted that the methodology used to determine the economic impact of each New Hampshire airport is summarized as the Airport Economic Impact Analysis within Chapter Five of the *New Hampshire State Airport System Plan Update*.

Tourism Support – Low Business Support – High Public Utility - High







# AIRPORT ECONOMIC IMPACT SUMMARY

# MANCHESTER AIRPORT

# **Economic Benefits**

- Second largest airport in New England
- 10 major national and regional commuter airlines
- 6 cargo carriers
- 3.2 million passengers in 2000
- Primary airport used by New Hampshire business and leisure air travelers
- 1,388 aviation related jobs with a gross payroll of almost \$19 million (1998)
- Total expenditures for (40) on-airport organizations of \$49.7 million (1998)
- Total estimated economic impact of \$53.3 million (1998)1

# **Economic Summary**

Manchester Airport is northern New England's busiest airport and one of New Hampshire's most important economic "engines". The airport has over 1,300 aviation dependent jobs which, according to an economic impact study complete for the airport in 1998, generate an economic impact of over \$53 million. In addition to supporting businesses throughout the state, the facility handles over 3 million passengers annually and is considered the prime air travel gateway to New Hampshire. Additionally, Manchester Airport serves as home for many corporate flight departments as well as filling vital public utility role for important government, emergency medical and military operations.

# **Airport Impact**

It should be noted that the methodology used to determine the economic impact of each New Hampshire airport is summarized as the Airport Economic Impact Analysis within Chapter Five of the *New Hampshire State Airport System Plan Update*.

Tourism Support – High Business Support – High Public Utility - High

1 Leigh Fisher Associates. Economic Impact Study: Manchester Airport (1998)





N/A

# New Hampshire State Airport System Plan Update



# AIRPORT ECONOMIC IMPACT SUMMARY

# HAWTHORNE-FEATHER AIRPARK Economic Benefits N/A Economic Summary N/A Airport Impact



# AIRPORT ECONOMIC IMPACT SUMMARY

# SILVER RANCH (JAFFREY) AIRPORT

### **Economic Benefits**

- 41 based aircraft
- 6 estimated aviation dependent jobs
- Estimated 10,648 annual operations
- Provides access to the national aviation system for corporate and recreational flyers
- Provides linkage to the Jaffrey region for transient flyers
- Annual fireworks event attracts flyers, seasonal and year round residents

# **Economic Summary**

Historically, Silver Ranch Airport has traditionally had a significant portion of its based aircraft being corporate users with the remainder being aircraft used for recreational or personal uses. The number of corporate users has declined modestly, however, the airport is still home for many aircraft used for primarily business uses. Many transient corporate flights utilize Silver Ranch in order to access business establishments throughout the Jaffrey region. The facility serves an important public utility role in that it can accommodate emergency medical and government flights.

# **Airport Impact**

It should be noted that the methodology used to determine the economic impact of each New Hampshire airport is summarized as the Airport Economic Impact Analysis within Chapter Five of the *New Hampshire State Airport System Plan Update*.





# AIRPORT ECONOMIC IMPACT SUMMARY

# **DILLANT-HOPKINS (KEENE) AIRPORT**

# **Economic Benefits**

- 54 based aircraft and home to many corporate aircraft departments
- 7 aviation dependent businesses
- Estimated aviation dependent employment of over 300 jobs
- 42,646 Estimated annual operations
- Vital public utility role by supporting the Civil Air Patrol, law enforcement, military and medical flights
- Provides access to the national aviation system for recreational flyers
- Provides linkage to local and regional sites and attractions for transient flyers

# **Economic Summary**

The primary role of the airport is to serve general aviation recreational and corporate aircraft. The airport plays an important economic role in that several corporations (including a large wholesale grocery distribution company and Troy Mills automotive) base their corporate aircraft at Dillant-Hopkins. The facility also provides a vital public utility role by facilitating aerial photography, fire surveillance flights, power line and pipeline inspection patrols, air ambulance services and law enforcement operations.

# **Airport Impact**

It should be noted that the methodology used to determine the economic impact of each New Hampshire airport is summarized as the Airport Economic Impact Analysis within Chapter Five of the *New Hampshire State Airport System Plan Update*.

Tourism Support – Low Business Support – Medium Public Utility - Medium







# AIRPORT ECONOMIC IMPACT SUMMARY

# SKYHAVEN AIRPORT

### **Economic Benefits**

- 80 based aircraft
- 9 estimated aviation dependent jobs
- Estimated 18,592 annual operations
- Provides access to the national aviation system for corporate and recreational flyers
- Provides linkage to the New Hampshire Seacoast region for transient flyers

# **Economic Summary**

As the only airport and FBO in Strafford County, Skyhaven primarily serves a multitude of functions including flight training, aircraft refueling and service as well as a base for corporate and recreational aircraft. Additionally, the facility serves in a public utility role as the New Hampshire Army National Guard uses it for training purposes.

# **Airport Impact**

It should be noted that the methodology used to determine the economic impact of each New Hampshire airport is summarized as the Airport Economic Impact Analysis within Chapter Five of the *New Hampshire State Airport System Plan Update*.







# AIRPORT ECONOMIC IMPACT SUMMARY

# **CLAREMONT AIRPORT**

# **Economic Benefits**

- 2 aviation dependent businesses
- 10,459 annual operations
- 22 based aircraft
- Provides access to the national aviation system for recreational flyers
- Provides linkage to the Upper Valley region's sites and attractions for transient flyers

# **Economic Summary**

The Claremont Airport primarily serves recreational aircraft with many transient flyers using the facility to access the natural features and sites (Lake Sunapee and ski facilities) throughout the region. Two local Claremont businesses (Costa Tool and Optimum Manufacturing) have historically used the facility within their business operations.

# **Airport Impact**

It should be noted that the methodology used to determine the economic impact of each New Hampshire airport is summarized as the Airport Economic Impact Analysis within Chapter Five of the *New Hampshire State Airport System Plan Update*.







# AIRPORT ECONOMIC IMPACT SUMMARY

# LEBANON MUNICIPAL AIRPORT

# **Economic Benefits**

- 11 aviation dependent businesses
- 76 estimated aviation dependent jobs
- 42,749 annual operations
- Strong public utility component as City of Lebanon Fire Department uses facility for training purposes
- Commercial flights available to destinations including New York and Philadelphia
- Several corporate based aircraft
- Strong public utility asset for emergency medical, government and military use
- Provides access to the national aviation system for recreational flyers
- Provides linkage to the Upper Valley region's sites and attractions for transient flyers

# **Economic Summary**

Although the number of commercial enplanements has declined over the past few years, Lebanon Municipal Airport continues to be one of three commercial airports in New Hampshire (along with Pease Tradeport and Manchester Airport) and the only commercial facility in the Upper Valley and eastern Vermont region. The airport impacts the regional economy by supporting 11 businesses and almost 80 aviation dependent jobs.

# **Airport Impact**

It should be noted that the methodology used to determine the economic impact of each New Hampshire airport is summarized as the Airport Economic Impact Analysis within Chapter Five of the *New Hampshire State Airport System Plan Update*.

Tourism Support – Low Business Support – Medium Public Utility - Medium





# AIRPORT ECONOMIC IMPACT SUMMARY

# PARLIN FIELD (NEWPORT)

# **Economic Benefits**

- 11 based aircraft
- Provides access to the national aviation system for recreational flyers
- Provides linkage to the lake Sunapee Region sites (lakes and Sunapee Ski area) and attractions for transient flyers
- Several aviation and non-aviation related special events at the airport attract thousands of people annually

# **Economic Summary**

As the airport's sponsor, the Town and part-time airport manager have positioned the facility as the "gateway to Lake Sunapee" region. Complete with annual scheduled aviation and non-aviation related special events at the facility, including the very successful balloon festival, the airport attracts thousands of seasonal and year round residents and tourists. Within the past year a restaurant has opened in order to cater to aviation-related guests and, according to the Town Manager, business has been good.

# **Airport Impact**

It should be noted that the methodology used to determine the economic impact of each New Hampshire airport is summarized as the Airport Economic Impact Analysis within Chapter Five of the *New Hampshire State Airport System Plan Update*.







Appendix 5-B – FAA Presentation Regarding Future GA Activity





# FAA GENERAL AVIATION FORECASTS: 2002-2013



John M. Rodgers

Director, Office of Aviation Policy and Plans

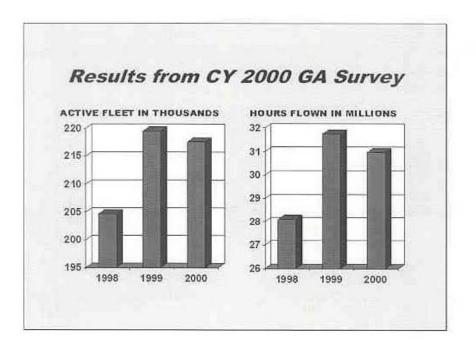
# Topics for Discussion

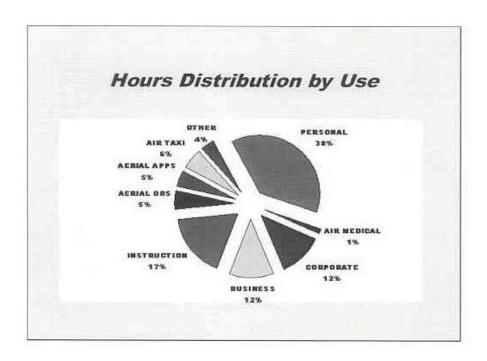
- → General Aviation and Air Taxi Activity Survey (GA Survey)
- + Mixed Results in 2000/2001
- + Uncertain Future Environment
- + Forecast Approach / Methodology
- + General Aviation Forecast(s)











Source: FAA Office of Policy and Plans







#### Mixed News for GA in 2000-2001

- → GA billings set a record for the fourth consecutive year
- Turbojet shipments were up for the fifth consecutive year
- Total pilot certificates held were up for the fifth consecutive year
  But

# Mixed News for GA in 2000-2001

- → GA active fleet and hours flown were down in CY 2000 after five consecutive years of increase
- + GA activity at FAA facilities down
- → F/W piston shipments were down
- → Student certificates were down in 2001 for third consecutive year



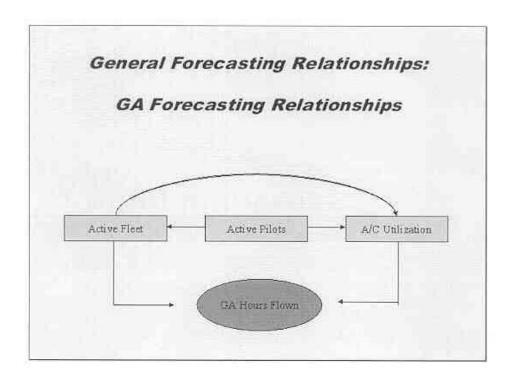






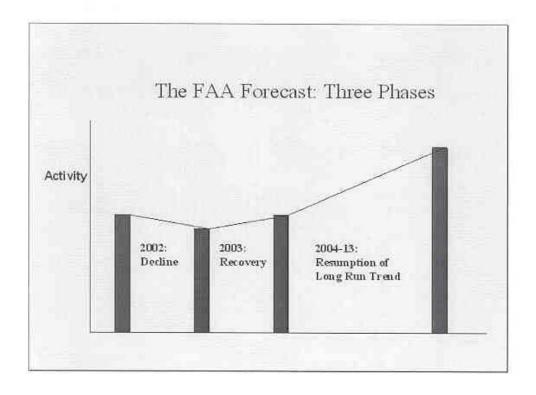
#### Uncertain Future Environment

- Recession in general economy in 2001/2002
- + Lasting effects of September 11th
  - Restrictions on GA ?
  - Restrictions on pilot training?
- + How fast does GA recover from recession?
- + Can fractional ownership maintain pace?
- + Will "sport pilot/light sport aircraft" provide a measurable boost to GA?









# GA Active Fleet: Assumptions and Forecasts

#### → F/W piston

 Single-engine: contraction in fleet through 2003;
 no change in 2004; and resumption of growth in 2005

#### > F/W Turbine

- Turboprop: slight decline through 2003; modest growth through 2013
- Turbofan/jet: modest to strong growth throughout the entire forecast period

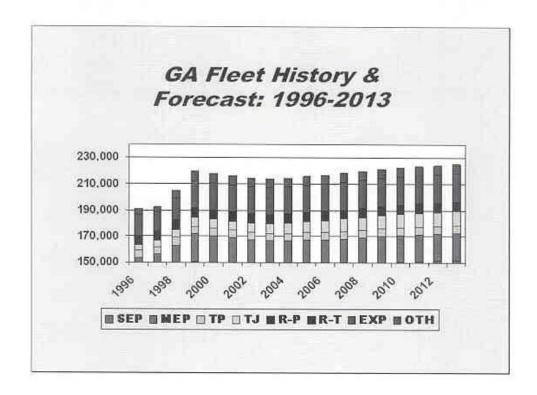
#### + Rotorcraft

Decline through 2003; modest growth, led by piston through 2013









# Aircraft Utilization: Assumptions and Forecasts

#### + Piston

 "Aging" of piston fleet and decline in number of student pilots leads to lower piston utilization at end of forecast period

#### + Turbine

 Increase in turbine utilization is largely due to increase in number of these aircraft in fractional ownership programs

#### + Rotorcraft

 Utilization decreases slightly due to change in fleet mix and changing use patterns

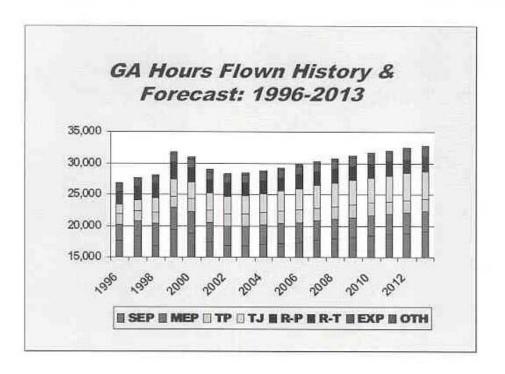
#### → Net Effect

Overall 2.6% increase in utilization over forecast period



















#### Forecast Concerns/Risks

- + Long term effects of security measures on GA
- + Economic cycle strength of recovery and its effect on GA
- → "Aging" GA fleet -- aircraft production and affordability
- + Ability of airport and ATC system infrastructure to support growth

# Early Results: Economy and Security

- Recession shallower than expected
   Recovery sooner, but weaker than predicted
- + Fuel prices likely to increase
- Most security (e.g., "no fly zone") restrictions eliminated or relaxed
- + Early reports from FAA towers/ centers showing resiliency of GA

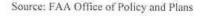






# Summary

- + This year's forecast posed an unusually difficult challenge
  - Downturn in GA began in 2000
  - U.S. economy in recession for much of 2001
  - September 11th and its aftermath
  - Cancellation of FAA/TRB Forecast workshop
- → Some reasons for optimism for next year
  - U.S. economy recovering more quickly than expected
  - Turbofan/jet shipments holding up
  - Increase in commercial/business use because of the inconvenience imposed by security procedures for scheduled airlines
- + Forecast workshop rescheduled for September









Appendix 5-C – System Plan Aviation Forecasts Background Data







# **Based Aircraft Forecasts**











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FAA BASED AIRCE Base line scenario	<del> </del>	OILEGAO!			ear						
Dase line scenario	2000	% of region	2005		Growth Rate	2010	% of region	Growth 5	Source	of Base Year	7000 Data
Region/Airport	2000	% or region	2003	% or region	Growth Rate	2010	% or region	Growth	30urce C	Dase real	2000 Date
regionizanpore											
Central											
Concord	81	100%	85	100%	4.9%	88	100%	4.0%	5010/ FAA	Growth rate	
Region Total	81	100%	85	100%		88	100%	,.			
· ·											
Lakes Region											
Bristol	3	2%	3	2%	4.9%	3	2%	4.0%	5010/ FAA	Growth rate	
Laconia	97	73%	109	75%	4.9%	113	75%	4.0%	5010/ FAA	Growth rate	
Wolfeboro	15	11%	16	11%	4.9%	16	11%	4.0%	5010/ FAA	Growth rate	
Moultonboro	17	13%	18	12%	4.9%	19	12%	4.0%	5010/ FAA	Growth rate	
Region Total	132	100%	145	100%		151	100%				
Nashua											
Nashua - Boire Field	403	100%	423	100%	4.9%	440	100%	4.0%	5010/ FAA	Growth rate	
Region Total	403	100%	423	100%		440	100%				
Nouth Countin											
North Country	200	0424	20	000/	4.007	20	0001	4.007	5040/54:	0	
Berlin	26	21%	30	23%	4.9%	32	23%	4.0%		Growth rate	
Colebrook	6	5%	6	5%	4.9%	7	5%	4.0%		Growth rate	
Errol	6 12	5%	6 13	5%	4.9%		5%	4.0%		Growth rate	
Franconia Gorham	4	10%	4	10%	4.9%	13 4	10%	4.0%		Growth rate Growth rate	
Haverhill	13	3% 11%	14	3%	4.9%	14	3%	4.0% 4.0%		Growth rate	
Mount Washington	36	30%	38	10% 29%	4.9% 4.9%	39	10% 29%	4.0%		Growth rate	
Plymouth	16		17			17				Growth rate	
Twin Mountain	3	13% 2%	3	13% 2%	4.9% 4.9%	3	13% 2%	4.0% 4.0%		Growth rate	
Region Total	122	100%	131	100%	4.970	136	100%	4.076	30 10/ 1 AA	Giowiii iale	
Region Total	122	10070	131	10070		730	10070				
Rockingham											
Hampton	70	43%	73	43%	4.9%	76	43%	4.0%	5010/ FAA	Growth rate	
Pease	91	57%	95	57%	4.9%	99	57%	4.0%		Growth rate	
Region Total	161	100%	169	100%	4.570	176	100%	4.070	0010/1700	Growth rate	
rtegron rotar		10070	700	70070		170	10070				
South											
Manchester	85	100%	89	100%	4.9%	93	100%	4.0%	5010/ FAA	Growth rate	
Region Total	85	100%	89	100%		93	100%	,			
· ·											
Southwest											
Hawthorne	13	12%	14	12%	4.9%	14	12%	4.0%	5010/ FAA	Growth rate	
Jaffrey	41	38%	43	38%	4.9%	45	38%	4.0%		Growth rate	
Keene	54	50%	57	50%	4.9%	59	50%		5010/ FAA	Growth rate	
Region Total	108	100%	113	100%		118	100%				
Strafford											
Rochester	68	100%	71	100%	4.9%	74	100%	4.0%	5010/ FAA	Growth rate	
Region Total	68	100%	71	100%		74	100%				
Hanau Vallas											
Upper Valley	20	000/	22	000/	4.00/	0.4	000/	4.00/	E040/ E 4 4	O	
Claremont	22	20%	23	20%	4.9%	24	20%	4.0%		Growth rate	
Lebanon Darlin Field	76	70%	80	70%	4.9%	83	70%	4.0%		Growth rate	
Parlin Field	11	10%	12	10%	4.9%	12	10%	4.0%	DU IU/ FAA	Growth rate	
Region Total	109	100%	114	100%		119	100%	-			
State Total	1,269		1,341			1,395					
Olule I Olai	1,203		1,341	<b></b>		1,395		1			





Trend Line Analysis - Based Aircraft OPS	ased Aircraft OPS	sdo	% Change	Annual	Airport Share Of Region							1000	5000	2000	0000	0000	0,000
Region Airport Central Concord	90		90-00	Change -1.3%	2000 100.0%	Concord	2000	2001	2002	2003	2007	2005	2006	74	73	72	71
	92	20	-12.0%	-1.3%		Concord	81	80	79	78	11	92	75	74	73	72	7
o octo		e.	%0.0	C	2.3%	Bristol	e	n	ო	m	e	ю	O.	2	2	8	2
	132	26	-26.5%	-3.0%	73.5%	Laconia	26	98	91	88	98	83	81	78	9/	73	71
Wolfboro	24	12	-37.5%	-4.6%	11.4%	Wolfboro	15	15	4	4	13	13	12	12	12	= ;	= (
Moltonboro	24	17	-29.2%	-3,4%	12.9%	Moltonboro	17	16	9	12	15	2	4	4	13	5	71
Region Total	180	132	-26.7%	-3.1%			132	128	124	120	117	113	110	106	103	100	26
Nashua Nashua	303	403	33.0%	2.9%		Nashua	403	415	427	439	452	465	478	492	909	521	536
Region Total	303	403	33.0%	2.9%			403	415	427	439	452	465	478	492	909	521	536
North CounBerlin	22	26	18.2%	1.7%	21.3%	Berlin	26	27	27	28	29	30	31	31	32	33	34
Colebrook	9	9	%0.0	%0.0	4.9%	Colebrook	9	9	9	9	9	<b>9</b> 1	ဖ	9 1	o r	Ø 0	9 0
Errol	4	9	50.0%	4.1%	4.9%	Errol	ယ ္	φ,	တ ရှ	~ ;	7		~ ;	7	- ů	ο f	o g
Franconia	თ	12	33.3%	2.9%	9.8%	Franconia	72.4	72 4	13	2	5 4	<u>4</u> u	<u>4</u> u	ō ĸ	<u>0</u> m	<u>0</u> 40	ō re
Gorham	01 10	4 ;	100.0%	%7.7	3.3%	Comam	4 6	1 6	1 4	14	4	, fc	, f	16	16	17	1
Haverhill		13	550.0%	20.0%	20.5%	Mt Washingto	2 %	37	38	39	40	4	45	44	45	46	47
Mr. Washington		8 4	6.7%	0.6%	13.1%	Plymouth	16	16	17	17	18	18	19	19	20	20	21
Twin Mountain	1 5	? m	-72.7%	-12.2%	2.5%	Twin Mountain	m	က	က	e	ო	ო	4	4	4	4	4
Region Total	93	122	31.2%	2.8%			122	125	129	132	136	140	144	148	152	156	160
Rockingha Hampton	76	70	-7.9%	-0.8%	43.5%	Hampton	70	72	74	76	78	81	83	85	88	91	93
Pease	45	91	102.2%	7.3%	26.5%	Pease	91	94	96	66	102	105	108	11	114	118	121
Region Total	121	161	33.1%	7.9%			161	166	170	175	180	186	191	197	202	208	214
South Manchester	228	85	-62.7%	-9.4%	100.0%	Manchester	82	11	20	63	27	25	47	43	39	35	32
Region Total	228	82	-62.7%	-9.4%			82	11	7.0	63	22	52	47	43	39	35	32
Southwest Hillsboro	es	5	333.3%	15.8%	12.0%	Hillsboro	<u>ნ</u>	13	13	13	13	13	5 3	5 5	5 5	13	5 6
Jaffery Keene	41	4 Q	0.0%	-2.0%	38.0%	Jaffery Keene	54	54	7 2	5 4 4 7 4	2 2	5 4	53	5.5	53	53	53
Region Total	110	108	-1.8%	-0.2%			108	108	108	107	107	107	107	101	106	106	106
Strafford Rochester	72	68	-5.6%	%9:0-		Rochester	68	89	29	29	99	99	99	92	99	92	64
Region Total	72	89	-5.6%	%9.0-			89	89	29	29	99	99	99	65	99	65	64
Upper ValleClaremont Lebanon Newport	26 67 12	22 76 11	-15.4% 13.4% -8.3%	-1.7% 1.3% -0.9%	20.2% 69.7% 10.1%	Claremont Lebanon Newport	22 76 11	22 76 11	113	118	112	372	22 78 11	23 17 17 23	23 78 11	23 79 11	23
Region Total	105	109	3.8%	0.4%			109	109	110	110	Ξ	£	111	112	112	113	113
Total Airport Activity	1304	1,269	-2.7%	-0.3%			1,269	1,275	1,283	1,293	1,303	1,315	1,329	1,343	1,359	1,375	1,393

1990 Data for Pease represents 1993 data, the year Pease started civilian operations





		0.15	0.20	0.05	0.02	0.10	0.10	0.10	0.15	0.10	1.0
	2010 1,434 1.50% 21	105	170 4 110 19 37	<b>433</b>	28 54 6 6 7 7 7 7 8 8 7 7 8 8 7 7 8 7 8 7 8 7	<b>182</b> 109 72	<b>117</b>	117 23 91	93 93	<b>126</b> 22 92 12	1,472
		0.15	0.15	0.10	0.05	0.10	0.10	0.10	0.15	0.10	1.0
	2009 1,412 1.40% 20	<b>101</b>	166 4 4 107 36 36	<b>432</b>	25 26 26 26 27 24 25 26 27 24 27 27 24 24 24 25 26 26 27 27 27 27 27 27 27 27 27 27 27 27 27	<b>180</b> 108 72	<b>5</b> 5	115 3 3 90	<b>6</b>	<b>124</b> 22 90 12	1,450
		0.15	0.15	0.10	0.05	0.10	0.10	0.10	0.15	0.10	1.0
	1,393 1,40% 19	86 86	4 4 105 4 8 36 36 36	<b>430</b>	25 5 5 6 5 7 7 4 5 7 5 7 4 4	178 107 71	<b>113</b>	113 22 88	87	<b>122</b> 22 89 83 42	1,431
		0.15	0.15	0.15	0.05	0.10	0.15	0.05	0.10	0.05	1.0
	2007 1,374 1.30%	<b>96</b>	60 4 03 35 35	<b>428</b> 428	25 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	176 106 70	ξE	11 3 22 87	84 84	120 21 87 12	1,412
		0.15	0.15	0.15	0.05	0.15	0.15	0.05	0.10	0.05	1.0
	2006 1,356 1.30% 17	<b>66</b>	157 3 102 17 35	<b>426</b> 426	25 52 6 7 7 7 7 7 8 9 8 15 4 4 7 7 8 7 8 7 7 7 7 8 7 7 7 7 7 7 7 7	174 105 69	<b>108</b>	213 86 14	<b>82</b> 82	120 21 87 12	1,395
		0.10	0.15	0.15	0.05	0.15	0.15	0.05	0.10	0.05	1.0
	2005 1,339 1.34% 18	<b>06</b>	155 100 17 34	423	<b>22</b> 8 8 8 7 4 4 5 5 4 4 5 5 4	171 103 68	<b>106</b> 106	3 21 85	<b>80</b>	119 21 86 12	1,378
		0.10	0.10	0.15	0.05	0.20	0.20	0.05	0.10	0.05	1.0
	2004 1,321 1.20% 16	<b>88</b>	152 3 17 33	<b>420</b>	25 26 26 20 20 20 20 20 20 20 20 20 20 20 20 20	169 102 67	<b>103</b>	109 3 21 85	<b>79</b>	118 21 85 11	1,361
		0.10	0.10	0.20	0.00	0.25	0.25	0.00	0.05	0.05	1.0
	2003 1,305 0.97% 25	87 87	150 3 97 17	418	22 6 6 7 7 7 8 8 8 8 7 7 8 8 8 8 7 8 7 8	<b>166</b> 001 06	<b>100</b>	108 21 84	# 12	21 21 85 11	1,345
		0.10	0.10	0.20	0.00	0.25	0.25	0.00	0.05	0.05	1.0
	2002 1,293 0.97% 24	85 85	142 3 92 16 31	411	225 0 0 0 7 4 51 6 5 4	165 99 66	94	108 3 21 84	22 22	113 20 82 11	1,312
		0.10	0.10	0.20	0.00	0.25	0.25	0.00	90.0	0.05	1.0
d Aircraft	2001 1,280 0.89%	<b>82</b> 82	133 3 86 15 29	405	222 0 0 0 0 7 4 50 0 50 4	164 99 65	<b>88</b> 88	108 21 84	<b>69</b>	01 00 00 00 00 00 00 00 00 00 00 00 00 0	1,280
oast - Base		1.00	00.0	1.00	00.00	0.00	1.00	0.00	1.00	0.00	
owth Fore	1,269	æ æ	132 3 97 15	403	22 26 6 6 6 6 6 6 6 7 7 8 8 8 8 8 8 8 8 8 8	161 70 91	<b>88</b>	80 t 2 4 3	<b>88</b>	109 76 11	1,269
Projected Population Growth Forecast - Based Aircraft	*	Airport	Bristol Laconia Wolfboro Moultonbor	Nashua	Berlin Berlin Colebrook Errol Franconia Gorham Haverhill Whitefield Plymouth Twin Moun	ham Hampton Pease	Mancheste	st Hillsboro Jaffery Keene	Rochester	claremont Claremont Lebanon Newport	Tig.
Projecte	Pop. % Change # Change	Region	Lakes	Nashua	North County Berlin Cole Errol Fran Fran Have Whit	Rockingham Har Pea	South	Southwest L	Strafford	Upper Valley Cla	State Total





# Aircraft Operations Forecasts





Population N	Population Market Share Forecast	Tig I							0.000		10000		0.000				0.00	9	(8	i			3	1		7		
Region	Airport	2000 81	100.0%	2000	100 004		Population 2000	Current Population Population OPEA, 2000 Ratio 623	7807 78	Operations 52,332	282 282 283	Operations 57,955	2001 BA 85	Operations 52,555	BA 6	Operations 54 201	BA Ope	Operations 6	8A Ope	Operations 8 56,683	84 Ope	Operations BA	0	Operations BA 59 tab 9	A Gpe	Operations 6A 97 6C 431 9	8 0 bs	Operations 99 61,677
		5				623	104,152	1,286	84	52,332	98	52,955	98	52,956	16	54.201	68	55 447	8	56,693	8	0.03	22	59 182	26	60,431	8	11,577
Lakes	Bristol Laconia Wolfboro Malturitoro	2 5 5 7 5	23% 735% 125%	34,696 6,000 11,870	2.2% 64.7% 11.1% 22.0%	5 8 5 E			0.2 8 8	1.246 36.233 6.230 12,324	50 50 81	1,255 36,498 6,275 12,414	e 2 a a	200 X 200 X 200 X 200 X 200 X	62 m m	1,281 37,556 6,457 12,774	101 171 18	1 328 38 614 6 639 12,134	200	1,365 39,407 0,775 13,404	m 2 2 2 8	1,131 6,965 13,754	4	# 523 7 738 7 738	4 5 5 5	1,456 42316 7,275 14,383	4 122 4 25 25 25	1,510 43,903 7,548 14,933
	Region Total	132		\$3,968		409	94,690	111	137	26,033	138	56,442	140	57,260	3	13,071	146	59,714	2	50,541	2	62,577	157	64,213	160	05,440	166	67,594
Nashas	Nashua Region Total	£04 £04	100 0%	279,001	100 0%	52 E	190,098	472	418	104,918	422	105,922	427	107,177	432	108.432	F 75	856-938 109,938	ž <del>ž</del>	111,193	648	112,448	452 1	113,452	158	114,456	458	14,958
North Country Berlin Colebrook Errol	Colebrook Errol	黑田田	15 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	14,000 1,500 750	45.4 2.29%	885			10 to 40 to	1,5034	Sani	1,503	ည်းကတ	1,502 1757	8000	25. 25.	ဗွ ဖ ဖ ္	1,527	5000	14 483 1 552 778	M m m I	2 2 2 E	D to to t	1,576	图 40 40 5	222	利 40 10 5	1,613 1,613
	Francona Gorban Haverhill Wherefuld Figmouth Twin Mountain	7 + 2 9 2 n	20 5% 20 5% 20 5% 20 5%	2500000	2.0% 12.0% 12.0% 12.0% 13.0%	8 8 8 8 8 8	2 /40			4 007 4 007 4 007 1 002	- 5 % B L	2,002 2,002 2,003 2,003 2,003 2,003	41820	2 4 00 7 2 6 2 7 2 6 7 2 6 7 2 7 3 7 3 7 4 7 5 7 5 7 7 7 8 7 7 8 7 7 7 8 7 7 8 7 7 7 8 7 7 7 8 7 7 7 8 7 7 8 7 7 7 8 7 7 7 8 7 7 7 8 7 7 7 8 7 7 7 8 7 7 7 8 7 7 7 7	:10 M a u	0.000	4 2 12 25 20	4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	42850	4 138 4 138 4 138 1 035	****	1043 1774 1774 1774 1983	2 * # # # C #	88588		128 5 4 5 8 5 8 5 8 5 8 5 8 5 8 5 8 5 8 5	2*1850	200 4 0 4 10 10 10 10 10 10 10 10 10 10 10 10 10
Rockingham	Region Total Hampton Passes	70 70	\$ 5 5 5 5	33,250	8 8	508	81.327	299	22 2 28	39,330	42 44 97 44 44 44 44 44 44 44 44 44 44 44 44 44	33,306	122 54 55 58	33,796 40,494 36,844	2 ⊏8	12. 13. 15. 15. 15. 15. 15. 15. 15. 15. 15. 15	25 25 20	33,862 41,657 27,616	728	34,398 42,123 27,824	127	34,671 42,355 26,079	85 8 2 8	34,944	5 E E	35,490 43,296 28.696	£ 55	35,753 25,752 28,004
£-0,0	Region Total	191	90.00				180,866	27.7	68 88	65,403	€ 8	47.882	174	67,133	£ 6	£8,112 46,956	92	69,273	£ 8	70,047	24 16	70,434	¥ 8	71,208		71,982	<b>5</b> 8	72,756
ĺ	Region Fotal	2					240,815	2.833	10	47,344	8	47,882	00	48,420	16	48,958	9.5	49,496	52	\$0,034	35	50,572		50,572	92	\$1,110	9.6	51,048
Southwest	Hilisbord Jaffery Kaena Region Total	E # 2 E	12 0% 38 0% 50 0%	1,500 10,648 42,646	10 4% 17 8% 17 8%	212 280 297 298	92 652	\$	2 1 N 2	1,499 10,641 42,616	t 4 k 5	1,499 10,641 42,615	E 4 % 8	1 429 10 541 47 516	5 ± 8 §	10,739 43,011	13 55 51	1,527	248 E	1,541 10,936 45,800 56,277	248 5	1,554 11,035 44,195 56,784	10 20 1	4,582 44,984 57,738	1 4 8 E	1,610 11,429 45,773 58,812	148 E	1,652 11,724 48,957 60,333
Strafford	Rochester Region Total	8 8	100.0%	18,592	360 DOI	233	139,085		55 B	18,865	8 5	18,865	70	19,139	0 2	19,139	E E	19,383	72	19,686	62 62	19,959	8 2	20,506	2 2	20,779	2 2	21,226
Upper Valley	Upper Valley Claremont Letanon Newport	282	20 2% 69 7% 51 1%	10,459 42,749 5,730	87.71 87.557 87.9	575 562 523	PETERS		= 48	10,657 43,556 5,836	282	10,753 43,949 5,891	RRE	10,549 44,341 5,543	和世纪	10 945 64 733 6986	283	11 041 45 126 6 049	2 8 2	11,137 45,518 8,101	2 52 52 52 53 54	11,233 45,911 8,164	222	11,523 47,088 6,312	282	47,873	852	12,0001 49,050 6,575
	Region Total State Total	100		\$6,938		198	541 81,326 972,981,1 778	746	111	492,980	112 117	496,569	113	61,133	114	507,407	11.5	62,215	116	62,756	117	523,297	120	64,920	122	544,471	125	87,625





	0.15	0.20	0.05	0.05	0.10	0.10	0.10	1.0
2010 540,737 1,50% 7,991	<b>59,247</b> 59,247	72,191 1,605 46,682 8,026 15,878	113,027 113,027	35,670 15,019 1,609 805 4,828 1,073 4,291 2,682 4,291 1,073	70,019 42,105 27,913	57,630 58,344 1,597 11,338 45,409	29,040 29,040 64,901 11,517 47,074 6,310	560,068 7,991
	0.15	0.15	0.10	0.05	0.10	0.10	0.10	1.0
2009 532,746 1.40% 7,355	<b>58,048</b> 58,048	70,593 1,570 45,648 7,848 15,527	<b>112,627</b> 112,627	35,270 14,851 1,591 796 4,773 1,061 4,243 1,061	69,219 41,625 27,595	56,831 1,575 11,183 44,787	27,841 27,841 64,102 11,375 46,495 6,232	<b>552,077</b> 7,355
	0.15	0.15	0.10	0.05	0.10	0.10	0.10	1.0
2008 525,391 1.40% 7,254	<b>56,945</b> 56,945	69,490 1,545 44,935 7,726 15,284	111,892	34,903 14,696 1,575 787 4,724 1,050 2,624 4,199 1,050	68,484 41,183 27,301	56,095 1,555 11,040 44,214	26,738 26,738 63,367 11,245 45,961 6,161	7,254
	0.15	0.15	0.15	0.05	0.10	0.05	0.10	1.0
2007 518,137 1.30% 6,649	<b>55,856</b> 55,856	68,402 1,521 44,231 7,605 15,045	111,166	34,540 14,543 1,558 779 4,675 1,039 4,155 2,597 4,155 1,039	67,758 40,746 27,012	55,370 56,084 1,535 10,899 43,650	25,650 25,650 62,641 11,116 45,435 6,090	537,468 6,317
	0.15	0.15	0.15	0.05	0.15	0.05	0.10	1.0
2006 511,487 1,30% 6,564	<b>54,859</b> 54,859	67,404 1,499 43,586 7,494 14,825	110,169	34,207 14,403 1,543 772 4,630 1,029 4,115 2,572 4,115 1,029	67,094 40,347 26,747	54,373 1,526 10,834 43,391	24,985 24,985 62,309 11,057 45,194 6,058	531,151 6,564
	0.10	0.15	0.15	0.05	0.15	0.05	0.10	1.0
2005 504,923 1.34% 6,677	<b>53,874</b> 53,874	66,420 1,477 42,950 7,384 14,609	<b>109,184</b> 109,184	33,879 14,265 1,528 764 4,585 1,019 4,076 4,076 1,019	66,109 39,754 26,355	53,388 55,423 1,517 10,770 43,136	24,328 24,328 61,981 10,999 44,956 6,026	<b>524,587</b> 6,343
	0.10	0.10	0.15	0.05	0.20	0.05	0.10	1.0
2004 498,247 1.20% 5,908	<b>53,207</b> 53,207	<b>65,418</b> 1,455 42,302 7,273	<b>108,183</b> 108,183	33,545 14,124 1,513 757 4,540 1,009 4,036 2,522 4,036 1,009	65,107 39,152 25,955	52,387 55,089 1,508 10,705 42,876	23,661 23,661 61,647 10,940 44,714 5,993	518,244
	0.10	0.10	0.20	0.00	0.25	0.00	0.05	1.0
2003 492,339 0.97% 9,031	<b>52,616</b> 52,616	64,827 1,441 41,920 7,207 14,258	107,297	33,250 14,000 1,500 7,500 1,000 4,000 2,500 4,000 1,000	63,926 38,442 25,484	54,794 1,500 10,648 42,646	23,070 23,070 61,352 10,887 44,500 5,965	<b>512,336</b> 29,028
	0.10	0.10	0.20	0.00	0.25	0.00	0.05	1.0
2002 487,609 0.89% 8,565	51,713	59,566 1,324 38,518 6,622 13,101	104,445	33,250 14,000 1,500 750 4,500 1,000 4,000 2,500 4,000 1,000	63,676 38,291 25,385	48,947 48,947 1,500 10,648 42,646	20,937 20,937 60,198 10,683 43,663 5,853	497,526
	0.10	0.10	0.20	0.00	0.25	0.00	0.05	1.0
2001 483,307 0.89% 4,263	<b>50,856</b> 50,856	54,394 1,209 35,174 6,047 11,964	<b>101,825</b> 101,825	33,250 14,000 1,500 750 4,500 1,000 4,000 2,500 4,000 1,000	63,426 38,141 25,285	46,806 46,806 1,500 10,648 42,646	18,805 18,805 59,151 10,497 42,904 5,751	483,307
	1.00	0.02 0.65 0.11 0.22	1.00	0.42 0.05 0.14 0.03 0.12 0.08	0.60	1.00 0.03 0.19 0.78	1.00 0.18 0.73 0.10	
2000	<b>50,430</b> 50,430	53,968 1,200 34,898 6,000 11,870	100,972 100,972	33,250 14,000 1,500 750 4,500 1,000 4,000 2,500 4,000 1,000	62,360 37,500 24,860	45,740 45,740 1,500 10,648 42,646	18,592 18,592 58,938 10,459 42,749 5,730	479,044
	Airport	Bristol Laconia Wolfboro Moultonbor	Nashua	ntry Berlin Colebrook Colebrook Errol Franconia Gorham Haverhill Whitefield Plymouth Twin Moun	um Hampton Pease	ste	Rochester ley Claremont Lebanon Newport	4
Pop. % Change # Change		Lakes Bristol Laconi Wolfbo Moulto	Nashua Nas	North Country Bedin Colebb Errol France Gorla Haverh Whitel Plymo	ghg	Southwest Hillsbon Jaffery Keene	Strafford Roct Upper Valley Clara Leba New	State Total
	10000	530	2075	cs(5)		1994	per cont	W.C.





																			ii S									
Operations	Operations Per Based Aircraft Forecast	orecast		SHO	0.0	Current	oculation 6	Population	2001		2002		2003		2004	01f	5002	ñ	2006					2009		2010		
Region	Airport	2000	100.0%	2000	100.0%	OPBA 623	OPBA 2000 Ratio 623	Ratio		Operations 52,332	BA 85	Operations 52,955	8A 85	Operations 52,955	BA 0 87	Operations 54,201	BA Ope	Operations E 55,447	-	Operations Ba	BA Operations 93 57,939	BA	Oper	BA	Operations 97 60,431	BA	9 6	rations 61,677
	Region Total	90		50,430		23	104,152	1,286	25	52,332	88	52,955	58	52,955	87	54,201	689	55,447	66	56,693	93 57	57,939	95 58	58,185	97 60,431		99 61	61,677
Lakes	Bristol Lacoria Wolfboro	8 55 15	73.5%	1,200	2.2% 64.7% 11.1%	98 0 0 0 0			£ 101	1,246 36,233 6,230	101	1,255 36,498 6,275	. 25 to	1,273 37,027 6,366	4, 25 at 1	37,556	50,	1,328	100 2	1,355 39,407 6,775	. 6 a i	1,391	4 5 E E E	1,428	4 1,455 18 42,316 18 7,275		122 43	1,510 43,903 7,548
	Mottonbord Region Total	132	12.9%	11,870	22.0%	409	94,690	717	137			12,414		57,260	5 24	58,078	148	59,714	149	13,404				20 200	60 65,440			67,894
Nashua	Nashua	403	100.0%	100,972	100,0%	251			418	104,918	422	105,922	423	107,177	432	108,432	438	109,938	243	111,193	448 112,448	72207	452 113	5-5/11	456 114,456	55	25	14,858
	Region Total	403		100,972		251	190,088	472	418	104,918	422	105,922	422	107,177	<b>Q</b>	108,432	438	109,938	64	111,193	448 112,448	12501	452 113	113,452 4	456 114,456	156 458		114,958
North Count	y Berlin	26	21.3%	14,000	42.1%	538			38	14,024	R	14,024	8	14,024	<b>8</b> 6	14,139	8 .	14,253	27	14,483	27	14,588	27 14	14,713	28 14,943	243	15	15,058
	Colebrook	to is	4.9%	750	7.3%	125			0 10	751		751		757	0 0	757	οφ	784		776		782	9	788				807
	Franconia	22	%8 S	4,500	13.5%	375			12	4,508		4,508		4,508	12	4,545	12	4,581		4,655								.840
	Gorham	ч	3.3%	1,000	3.0%	250			4 (	1,002	* 3	1,002		1,002	4 0	1,010	· .	1,018	w ;	1,035	• ;		* :		4 1,067		* :	920
	Haverhill	2	10.7%	4,000	12.0%	308			2 4	6,007		4,007		4,007	2 %	9,040	2.4	2000		10,150								553
	Vehicehold	9 5	13 180	4 000	12.0%	26.0			16	4.007		4,007		4.007	9	4.040	16	4,072		4,138								302
	Twin Mountain	e e	2.5%	1,000	3.0%	333			e	1,002		1,002		1,002	m	1,010	n	1,018		1,035								920
	Region Total	122		13,250		273	81,327	299	122	33,306	122	33,306	122	33,306	123	33,579	124	33,852	126	34,398	127 34,671		128 34,	34,944 1	130 35,490	131	-	35,763
Rockingham	Hampton Pease	2.5	43.5%	37,500	39.9%	536			28	39,330	74	39,795	76	40,494	11.	40,959	50.0	41,657	102	42,123 27,924	79 42,355 103 28,079		80 42.	28,387	81 43,285 105 28,696	86 82 96 106		43,752
	Region Total	161		62,360		387	180,868	1,123	169	65,403	171	66,177	174	67,338	176	68,112	179	69,273	181	70,047	182 70,	70,434	184 71,	71,208 11	186 71,982	188		72,756
South	Manchester	88	100.0%	45,740	100 0%	538			88	47,344	88	47,882	96	48,420	16	48,958	92	49,496	63	50.034	94 50,	50,572	94 50	50,572	95 51,110		96 51	51,648
	Region Total	88		45,740		828	240,815	2,833	80	47,344	88	47,882	96	48,420	16	48,958	32	49,496	6	50,034	94 50,	50,572	58	50,572	51,110	10	55.	51,648
Southwest	Hillsboro	5.2	12.0%	1,500	2.7%	115			2 4	1,499	5 13	1,499	5.5	10,641	5.2	10,739	5 2	1,527	\$ 52	1,541	13 1,554		43 4,4	1,582	14 1,610		14 45	1,652
	Keene	Z.	20.0%	42,648	77.8%	780			5.4	42,616		42,616	Z.	42,816	55	43,011	52	43,406		43,800								957
	Region Total	108		54,794		205	92,652	858	108	54,756	108	54,756	108	54,756	109	55,263	110	92,770	11	56,277	112 56,	1. 184	114 57,	1 867,73	6 58,812	12 119		60,333
Strafford	Rochester	28	\$00.001	18,592	3,00,001	273			60	18,865	69	18,865	20	19,139	20	10,139	71	19,412	72	19,686	73 19,	19,959	75 20,	20,506	6 20,779		78 21,	21,326
	Region Total	68		18,592		273	129,663	1,907	69	18,837	63	18,837	70	19,110	2	19,110	r.	19,383	72	19,656	73 19,	19,929	75 20,	20,475	6 20,748	48 7	5 21,	21,294
UpperValley	Claremont Lebanon Newport	285	20.2% 69.7% 10.1%	10,459 42,748 5,730	17.7% 72.5% 9.7%	475 562 521			27.1	10,657	78	10,753 43,949 5,891	222	10,849	2 2 2	10,945 44,733 5,996	12 60	11,041 45,126 6,049	23 8 23	11,137 45,518 6,101	24 11,233 82 45,911 12 6,154		24 11, 88 47,	47,088 E	11,713 15 47,873 12 6,417		25 12, 87 49, 13 6,	12,001 49,050 6,575
	Region Total	109		58,938		541	61,326	746	111	150,031	112	60,592	113	61,133	7.	51,674	45	62,215	116	62,756	117 63,	63,297 12	120 64,	64,920 122	2 66,002	02 125		67,625
	State Total	1269		479,044		377	1,195,579	942	1306	492,980	1317	496,869	1330	501,455	1346	507,407	1364 8	515,088	1382 5	521,995	1400 528,651	351 1419	19 536,767	767 1439	544,471	71 1461		553,948







44,088         42,631         41,222         39,860         38,543         37,269           44,088         42,631         41,222         39,860         38,543         37,269         37,269           44,088         42,631         41,222         39,860         38,543         37,269         37,269           29,256         28,317         27,188         26,046         24,980         23,988         34,97         41,198           45,660         43,731         41,938         40,273         38,630         37,049         37,049           45,660         43,731         41,938         40,279         38,630         37,049         37,049           45,660         43,731         41,938         40,279         38,630         37,049         37,049           10,042         50,622         59,565         54,550         49,956         45,750         41,19           11,022         65,042         59,565         54,550         49,966         3,747         3,024         2,966         2,792           3,402         3,276         3,447         3,024         2,966         2,793         3,413           3,403         3,276         3,447         3,024         2,966         3,7	Airport Share Operations Operations % Change Annual Of Region	Annual Of Region	Annual Of Region	Annual Of Region	Airport Share Of Region	5000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			000			.000	6000	1000	0000	0000	0,00
45,594         44,088         42,631         41,222         39,860         38,543         37,269           1,059         1,015         974         41,222         39,860         48,99         37,269           2,0786         29,226         28,317         27,158         26,046         24,990         23,985           5,239         5,076         4,899         4,699         4,478         4,295         4,119           10,471         10,043         9,632         9,237         8,899         8,497         8,149           4,7608         45,660         4,899         4,699         4,478         4,295         4,119           1,4753         71,022         65,042         59,565         54,50         49,956         45,750           1,7553         71,022         65,042         59,565         54,50         49,956         45,750           2,248         1,392         3,835         3,649         3,749         3,749         3,749         3,749           3,548         3,409         3,276         3,147         3,024         3,696         3,749         3,798           4,1274         42,235         24,123         7,746         3,726         2,728         3,418	Change -3.3%	Change 2000 2000 -3.3% 100.0% Concord 50,430	Change 2000 2000 -3.3% 100.0% Concord 50,430	Change 2000 2000 -3.3% 100.0% Concord 50,430	2000 2000 100.0% Concord 50,430	2000 % Concord 50,430	<b>2000</b> 50,430		<b>2001</b> 48,764	2108	<b>2002</b> 47,152	<b>2003</b> 45,594	<b>2004</b> 44,088	<b>2005</b> 42,631	<b>2006</b> 41,222	39,860	2008 38,543	<b>2009</b> 37,269	
1,015         1,015         974         934         896         859         824           30,786         29,252         28,317         27,158         26,046         24,980         23,588           1,0471         1,0043         9,632         4,689         4,689         4,789         4,789           47,608         45,660         43,791         41,998         40,279         38,630         37,049           77,553         71,022         65,042         59,565         54,560         49,956         45,760         41,998           77,553         71,022         65,042         59,565         54,560         49,956         45,760         41,998           77,553         71,022         65,042         59,665         54,560         49,956         45,760         41,998           77,553         71,022         65,042         59,665         54,560         49,956         45,760	Region Total 70,570 50,430 -28.5% -3.3% Concord 50,430 48,764	70,570 50,430 -28.5% -3.3% Concord 50,430	-28.5% -3.3% Concord 50,430	-3.3% Concord 50,430	Concord 50,430	50,430	50,430		48,764		47,152	45,594	44,088	42,631	41,222	39,860	38,543	37,269	36,038
0         47,608         45,660         43,791         41,998         40,279         38,630         37,049         37,049           17,553         71,022         65,042         59,565         54,550         49,956         45,750         41           77,553         71,022         65,042         59,565         54,550         49,956         45,750         41           5         1,2419         11,932         11,465         11,101         10,585         10,47         9,772         42,566         53,641         40,77         9,772         41,47         41,690         10,47         42,566         49,956         45,750         41,47         41,491         11,47         41,491         41,47	Bristol 1,200 1,200 0.0% 0 2.2% Bristol 1,200 1,151 1,200 1,151 1,200 1,151 1,200 1,151 1,204 1,104 1,1204 1,104 1,1204 1,104	1,200 0.0% 0 2.2% Bristol 1,200 34,898 44.0% -5.6% 64.7% Laconia 34,898 6,000 -46.4% -6.1% 11.1% Wolfboro 6,000 11.870 3.5%	0.0% 0 2.2% Bristol 1,200 44.0% -5.6% 64.7% Laconia 34,898 46.4% -6.1% 11.1% Worlboro 6,000 40.4% -5.1% 11.1% Worlboro 1,000	0 2.2% Bristol 1,200 -5.6% 64.7% Laconia 34,898 -6.1% 11.1% Voliboro 6,000 3.5% 22.0% Methorboro 11870	2.2% Bristol 1,200 64.7% Laconia 34,898 11.1% Wolfboro 6,000 22.0% Meltenbero 1,870	Bristol 1,200 Laconia 34,898 Wolfboro 6,000 Moltonboro 11,870	1,200 a 34,898 iro 6,000 boro 11,870		1,151 33,470 5,754		1,104 32,100 5,519 10,918	1,059 30,786 5,293	1,015 29,526 5,076	974 28,317 4,869 9,632	934 27,158 4,669 9,237	896 26,046 4,478 8,859	859 24,980 4,295 8,497	824 23,958 4,119 8,149	790 22,977 3,950 7,815
77,553         71,022         65,042         59,565         54,550         49,956         45,750<	al 81,968 53,968 -34.2% -4.1%	53,968 -34.2% -4.1% 53,968	-34.2% -4.1% 53,968	4.1% 53,968	896'82	53,968	53,968		51,75		49,640	47,608	45,660	43,791	41,998	40,279	38,630	37,049	35,533
7,553         7,1022         65,042         59,565         54,550         49,966         45,750         41           1,2,31         1,278         11,405         11,105         10,585         10,170         9,772           6,65         639         614         590         564         3402         3,491         523           3,992         3,835         3,685         3,541         3,024         2,906         2,792         3,414           3,992         3,835         3,685         3,441         3,024         2,906         2,792         3,414         3,024         2,906         2,792           3,548         3,409         3,276         3,147         3,024         2,906         2,792         2,792           4,1217         42,536         43,898         45,303         46,752         24,164         23,006         2,792           41,217         42,536         43,898         45,303         46,752         48,249         49,793         5           41,217         42,536         23,112         11,274         31,984         45,303         46,752         48,249         49,793         5           41,217         42,536         43,898         45,333         <	Nashua 243,340 100,972 -58.5% -8.4% Nashua 100,972 92,470	100,972 -58.5% -8.4% Nashua 100,972	-58.5% -8.4% Nashua 100,972	-8.4% Nashua 100,972	Nashua 100,972	100,972	100,972		92,470	0	84,683	77,553	71,022	65,042	59,565	54,550	49,956	45,750	41,898
5         11,2419         11,332         11,465         11,016         10,585         10,170         9,772           4         3,925         1,228         11,180         1,134         1,000         1,047           3         3,925         3,685         3,541         3,024         3,289         3,141           3         867         852         819         787         766         726         698           3         2,548         3,409         3,276         3,147         3,024         2,306         2,792           2         2,548         3,409         3,276         3,147         3,024         2,306         2,792           3         2,648         3,548         3,409         3,276         3,147         3,024         2,306         2,792           41,277         42,536         43,898         45,303         46,752         48,746         23,009         3,009           41,277         42,536         43,898         45,303         77,746         80,234         49,793         48,793           5         68,541         70,735         24,023         21,120         18,568         16,324         14,351         12           1,381	Region Total 243,340 100,972 -58.5% -8.4% 100,972 92,470	100,972 -58.5% -8.4% 100,972	-58.5% -8.4% 100,972	-8.4% 100,972	100,972				92,470			77,553	71,022			54,550	49,956	45,750	41,898
6         1,331         1,278         1,128         1,180         1,134         1,090         1,047           3         865         639         614         590         657         545         523           3         3,922         3,832         3,649         3,541         3,024         2,906         2,792           3         3,548         3,409         3,276         3,147         3,024         2,906         2,792           3         3,548         3,409         3,276         3,147         3,024         2,906         2,792           3         3,548         3,409         3,276         3,147         3,024         2,906         2,792           4         1,218         2,218         2,131         1,967         1,890         1,816         1,745           5         3,548         8,518         78,7         3,478         3,418         3,418         1,744         1,745           6         8,541         70,735         72,999         75,335         77,746         80,234         82,802         82,309         3,591         31,986         33,909         33,909         33,607         34,996         33,909         33,909         33,609 <t< td=""><th>North Countesofts 9.038 14.000 54.9% 4.5% 42.1% Berlin 14.000 13.452</th><td>14 000 54 9% 4 5% 42 1% Berlin 14,000</td><td>54 9% 4 5% 42 1% Berlin 14:000</td><td>4 5% 42 1% Berlin 14,000</td><td>42.1% Berlin 14.000</td><td>Berlin 14,000</td><td>14,000</td><td></td><td>13,452</td><td></td><td>12,925</td><td>12,419</td><td>11,932</td><td>11,465</td><td>11,016</td><td>10,585</td><td>10,170</td><td>9,772</td><td>9,389</td></t<>	North Countesofts 9.038 14.000 54.9% 4.5% 42.1% Berlin 14.000 13.452	14 000 54 9% 4 5% 42 1% Berlin 14,000	54 9% 4 5% 42 1% Berlin 14:000	4 5% 42 1% Berlin 14,000	42.1% Berlin 14.000	Berlin 14,000	14,000		13,452		12,925	12,419	11,932	11,465	11,016	10,585	10,170	9,772	9,389
2         665         634         550         567         545         528           3         3,922         3,835         3,686         3,541         3,402         3,228         3,141           3         3,548         3,640         3,276         3,541         3,024         2,906         2,792           8         2,218         3,409         3,276         3,147         3,024         2,906         2,792           3         3,548         3,409         3,276         3,147         3,024         2,906         2,792           3         3,548         3,409         3,276         3,147         3,024         2,906         6,792           4         1,218         2,118         2,145         2,206         6,792         6,986           4         1,214         2,040         3,147         3,024         48,793         6,986           4         1,214         2,040         3,147         3,024         48,798         48,793           4         1,214         2,040         3,003         30,994         31,986         33,009           4         1,214         1,273         1,246         1,245         2,146         3,300	rook 1,500 1,500 0.0% 0 4.5% Colebrook 1,500	1,500 0.0% 0 4.5% Colebrook 1,500	0.0% 0 4.5% Colebrook 1,500	0 4.5% Colebrook 1,500	4.5% Colebrook 1,500	Colebrook 1,500	00k 1,500		1,441		1,385	1,331	1,278	1,228	1,180	1,134	1,090	1,047	1,006
3,992         3,835         3,685         3,541         3,402         3,795         3,714         3,698         3,541         3,402         3,716         3,447         3,698         3,716         3,717         3,724         2,906         2,792 <td< td=""><th>750 -57.4% -8.2% 2.3% Errol 750</th><td>750 -57.4% -8.2% 2.3% Errol 750</td><td>-57.4% -8.2% 2.3% Errol 750</td><td>-8.2% Errol 750</td><td>2.3% Errol 750</td><td>Errol 750</td><td>750</td><td></td><td>721</td><td></td><td>692</td><td>999</td><td>639</td><td>614</td><td>290</td><td>292</td><td>545</td><td>523</td><td>503</td></td<>	750 -57.4% -8.2% 2.3% Errol 750	750 -57.4% -8.2% 2.3% Errol 750	-57.4% -8.2% 2.3% Errol 750	-8.2% Errol 750	2.3% Errol 750	Errol 750	750		721		692	999	639	614	290	292	545	523	503
3         3.646         3.024         3.176         3.176         3.176         3.176         3.176         3.176         3.177         3.024         2.906         2.782         3.782         3.177         3.024         2.906         2.782         3.782         3.177         3.024         2.906         2.782         3.024         2.906         2.782         3.024         3.024         2.906         2.782         3.026         2.782         3.024         3.026         2.782         3.026         2.782         3.276         3.147         3.024         3.906         2.782         3.266         2.782         3.276         3.147         3.024         4.906         2.782         3.208         4.5303         46.752         48.246         4.3798         49.793         3.0894         48.793         48.786         48.793         48.786         48.793         48.786         48.793         48.786         48.783         48.380         3.0894         49.327         44.327         44.327         44.327         44.327         44.327         44.327         44.327         44.327         44.327         44.322         44.322         44.322         44.322         44.322         44.322         44.322         44.322         44.322         44.322	a 6,264 4,500 -28.2% -3.3% 13.5% Franconia	4,500 -28.2% -3.3% 13.5% Franconia 4,500	-28.2% -3.3% 13.5% Franconia 4,500	-3.3% 13.5% Franconia 4,500	13.5% Franconia 4,500	Franconia 4,500	4,500		4,324		4,154	3,992	3,835	3,685	3,541	3,402	3,269	3,141	3,018
8         2,218         2,131         2,047         1,967         1,890         1,816         1,745           3         3,548         3,479         3,276         3,147         3,024         2,906         2,782           7         29,434         28,339         27,229         26,163         25,138         24,154         23,208           8         41,217         42,536         43,898         45,303         46,752         48,249         49,793           8         41,217         42,536         43,898         45,303         36,954         31,309         49,793           8         41,217         42,536         24,023         21,120         18,568         16,324         14,351         14,351           1         1,385         1,349         1,314         1,279         1,246         1,213         1,182           1,386         1,349         1,314         1,279         1,246         1,231         1,182           1,381         1,384         1,349         46,738         8,445         86,14         8,389           2,834         3,577         36,377         36,426         34,499         33,697         36,378         36,499         34,499         33,	12.0% Haverhill 4.000	1,000 -/5.0% -/5.0% 5.0% GOMBIII 1,000	-75.0% -12.3% 5.0% Goffatti 1,000	3.9% 12.9% Somani 1,000	12.0% Haverhill 4.000	Haverhill 4 000	4 000		3 843		3 693	3 548	3.409	3.276	3.147	3.024	2.906	2.792	2.683
3,548         3,409         3,276         3,147         3,024         2,906         2,792           4,1217         29,434         28,339         27,229         26,163         25,138         24,154         23,208           4,1217         42,536         43,898         45,303         30,994         31,966         33,009           6,8541         70,735         72,999         75,335         77,746         80,234         49,793           3,1081         27,325         24,023         21,120         18,568         16,324         14,351         1,182           3,1081         27,325         24,023         21,120         18,568         16,324         14,351         1,182           3,1081         27,325         24,023         21,120         18,568         16,324         14,351         1,182           3,1081         27,325         24,023         21,120         18,568         16,324         14,351         1,182           3,1081         27,326         4,023         21,120         18,568         16,324         14,351         1,182           3,3,877         38,367         36,377         36,499         33,697         33,697         33,697         33,697         44,922	ingrion 7.363 2.500 -66.0% -10.2% 7.5% Mt. Washingto 2,500	7.363 2.500 -66.0% -10.2% 7.5% Mt. Washingto 2,500	-66.0% -10.2% 7.5% Mt. Washingto 2,500	-10.2% 7.5% Mt. Washingto 2,500	7.5% Mt. Washingto 2,500	Mt. Washingto 2,500	2,500		2,402		2,308	2,218	2,131	2,047	1,967	1,890	1,816	1,745	1,677
29,494         28,339         27,229         26,163         25,138         24,154         23,208           41,217         42,536         43,898         45,303         46,752         48,249         49,793           5 27,324         28,199         29,101         30,033         30,894         31,986         33,009           8 68,541         70,735         72,999         75,335         77,746         80,234         82,802           3 1,081         27,325         24,023         21,120         18,568         16,324         14,351         1,182           1,385         1,349         1,314         1,279         1,246         12,135         1,485           1,385         1,386         1,349         1,314         1,279         1,246         14,351         1,182           1,385         1,386         1,349         1,314         1,279         1,246         14,351         1,182           1,386         1,387         36,377         36,426         8,614         8,389         35,697         36,377         36,499         33,597           20,607         49,283         47,994         46,738         46,517         44,327         43,167         14,923         1 <tr< td=""><th>11,512 4,000 -65,3% -10,0% 12,0% Plymouth 4,000 5,405 1,000 -81,5% -15,5% 3,0% Twin Mountain 1,000</th><td>11,512 4,000 -65,3% -10,0% 12,0% Plymouth 4,000 5,405 1,000 -81,5% -15,5% 3,0% Twin Mountain 1,000</td><td>-65.3% -10.0% 12.0% Plymouth 4,000 -81.5% -15.5% 3.0% Twin Mountain 1,000</td><td>-10.0% 12.0% Plymouth 4,000 -15.5% 3.0% Twin Mountain 1,000</td><td>12.0% Plymouth 4,000 3.0% Twin Mountain 1,000</td><td>Plymouth 4,000 Twin Mountain 1,000</td><td>1,000</td><td></td><td>3,843</td><td></td><td>3,693</td><td>3,548</td><td>3,409</td><td>3,276</td><td>3,147</td><td>3,024</td><td>2,906</td><td>2,792</td><td>2,683</td></tr<>	11,512 4,000 -65,3% -10,0% 12,0% Plymouth 4,000 5,405 1,000 -81,5% -15,5% 3,0% Twin Mountain 1,000	11,512 4,000 -65,3% -10,0% 12,0% Plymouth 4,000 5,405 1,000 -81,5% -15,5% 3,0% Twin Mountain 1,000	-65.3% -10.0% 12.0% Plymouth 4,000 -81.5% -15.5% 3.0% Twin Mountain 1,000	-10.0% 12.0% Plymouth 4,000 -15.5% 3.0% Twin Mountain 1,000	12.0% Plymouth 4,000 3.0% Twin Mountain 1,000	Plymouth 4,000 Twin Mountain 1,000	1,000		3,843		3,693	3,548	3,409	3,276	3,147	3,024	2,906	2,792	2,683
41,217         42,536         43,898         46,303         46,752         48,249         49,793           6 68,541         70,735         72,939         75,335         71,746         80,234         49,793           3 1,081         27,325         24,023         21,120         18,568         16,324         14,351         1,362           3 1,081         27,325         24,023         21,120         18,568         16,324         14,351         1,182           3 1,081         27,325         24,023         21,120         18,568         16,324         14,351         1,182           3 1,384         9,577         9,327         9,083         8,445         8,614         8,389           5 0,607         49,283         47,994         46,739         45,517         44,327         43,187           1 7,278         16,861         16,455         16,057         15,670         15,292         14,923         17,278           1 36,723         34,909         33,185         31,546         29,988         28,507         27,099           3 6,630         4,612         16,455         16,057         15,670         15,292         14,923         14,923           3 6,630         4,612 </td <th>Region Total 49,579 33,250 -32.9% -3.9% 31,948</th> <td>33,250 -32.9% -3.9% 33,250</td> <td>-32.9% -3.9% 33,250</td> <td>-3.9%</td> <td>33,250</td> <td></td> <td></td> <td></td> <td>31,948</td> <td></td> <td>30,697</td> <td>29,494</td> <td>28,339</td> <td>27,229</td> <td>26,163</td> <td>25,138</td> <td>24,154</td> <td>23,208</td> <td>22,299</td>	Region Total 49,579 33,250 -32.9% -3.9% 31,948	33,250 -32.9% -3.9% 33,250	-32.9% -3.9% 33,250	-3.9%	33,250				31,948		30,697	29,494	28,339	27,229	26,163	25,138	24,154	23,208	22,299
68,541         70,735         72,999         75,335         77,746         80,234         82,802           31,081         27,325         24,023         21,120         18,568         16,324         14,351         12           31,081         27,325         24,023         21,120         18,568         16,324         14,351         12           31,081         27,325         24,023         21,120         18,568         16,324         14,351         12           3 9,834         9,577         9,327         9,083         8,945         8,614         8,389         33,597         36,377         36,377         36,439         33,597         44,992         14,923	Rockingha Hampton         34,491         37,500         8.7%         0.8%         60.1%         Hampton         37,500         38,700           Peasse*         11,017         24,860         125.7%         8.5%         39.9%         Pease*         24,860         25,656	37,500 8.7% 0.8% 60.1% Hampton 37,500 24,860 125.7% 8.5% 39.9% Pease* 24,860	8.7% 0.8% 60.1% Hampton 37,500 125.7% 8.5% 39.9% Pease* 24,860	0.8% 60.1% Hampton 37,500 8.5% 39.9% Pease 24,860	60.1% Hampton 37,500 39.9% Pease 24,860	Hampton 37,500 Pease 24,860	37,500 24,860		38,700	0 10	39,939	41,217	42,536 28,199	43,898	45,303	46,752 30,994	48,249	49,793 33,009	34,066
3 1,081         27,325         24,023         21,120         18,568         16,324         14,351         12,351         14,351         12,351         12,352         14,351         12,351         14,351         12,351         12,352         14,351         12,351         14,351         12,351         12,352         14,351         12,351         12,352         14,351         12,351         12,352         12,352         12,352         14,351         11,351         11,182         11,352         11,182         11,352         11,182         11,182         11,182         11,182         12,352         14,493         12,449         32,597         36,542         36,357         36,449         33,597         36,449         33,597         36,542         44,922         44,922         44,923         44,922         44,923	Region Total 45,508 62,360 37.0% 3.2% 64,356	62,360 37.0% 3.2% 62,360	37.0% 3.2% 62,360	3.2% 62,360	62,360				64,35	9	66,416	68,541	70,735	72,999	75,335	77,746	80,234	82,802	85,452
31,081         27,325         24,023         21,120         18,688         16,324         14,361         12           3 9,387         9,327         9,083         8,845         8,614         8,389         33,897         33,897         33,897         33,897         33,897         33,897         33,897         33,897         34,998         46,739         46,739         46,327         44,923         43,167         43,167         44,327         43,167         44,923	Manchester 165,822 45,740 -72.4% -12.1% 100.0% Manchester 45,740 40,213	45,740 -72.4% -12.1% 100.0% Manchester 45,740	-72.4% -12.1% 100.0% Manchester 45,740	-12.1% 100.0% Manchester 45,740	100.0% Manchester 45,740	Manchester 45,740	45,740		40,21	60	35,353	31,081	27,325	24,023	21,120	18,568	16,324	14,351	12,617
3         1,385         1,349         1,314         1,279         1,246         1,213         1,182           3         9,834         9,577         9,327         9,083         8,845         8,614         8,389           5         50,607         49,283         47,984         46,738         46,732         44,499         33,597           17,278         16,861         16,455         16,057         15,670         15,292         14,923         14,923           1         17,278         16,861         16,455         16,057         15,670         15,292         14,923         14,923           1         36,723         34,909         33,185         31,546         29,988         28,507         27,099         27,099           3         4,922         4,448         4,228         4,020         3,821         3,831         3,831           50,630         48,129         45,752         43,493         41,346         39,303         37,362         3           50,630         48,129         45,752         43,493         31,346         39,303         37,362         3           4,822         4,673         45,752         43,493         41,346         39,303	Region Total 165,822 45,740 -72.4% -12.1% 40,213	45,740 -72.4% -12.1% 45,740	-72.4% -12.1% 45,740	-12.1% 45,740	45,740				40,213	2011						18,568	16,324	14,351	12,617
50,607         49,283         47,994         46,739         45,517         44,327         43,167           17,278         16,861         16,455         16,057         15,670         15,292         14,923         1,177           1 36,723         34,909         33,185         31,546         29,988         28,507         27,099           3 6,723         4,679         4,448         4,228         4,020         3,821         3,632           5 6,630         48,129         45,752         43,493         31,546         29,988         28,507         27,099           5 6,630         4,922         4,679         4,428         4,020         3,821         3,632           5 6,630         48,129         45,752         43,493         41,345         39,303         37,362           4 18,386         40,1443         385,916         371,683         386,762         346,763         335,882         3	Southwest Hilisboro 10,000 1,500 85.0% -17.3% 2.7% Hilisboro 1,500 1,461 Jaffery 17,374 10,648 -38.7% 4.8% 19.4% Jaffery 10,648 10,370 Keene 44,046 42,646 -3.2% -0.3% 77.8% Keene 42,646 41,531	1,500 -85.0% -17.3% 2.7% Hillsboro 1,500 10,648 -38.7% -4.8% 19.4% Jaffery 10,648 42,646 -3.2% -0.3% 77.8% Keene 42,646	.85.0% -17.3% 2.7% Hillsboro 1,500 -38.7% -4.8% 19.4% Jaffery 10,548 -3.2% -0.3% 77.8% Keene 42,646	-17.3% 2.7% Hillsboro 1,500 4.8% 19.4% Jaffery 10,648 -0.3% 77.8% Keene 42,646	2.7% Hillsboro 1,500 19.4% Jaffery 10,648 77.8% Keene 42,646	Hillsboro 1,500 Jaffery 10,648 Keene 42,646	1,500 10,648 42,646		1,46 10,37 41,53	-0-	1,423 10,098 40,445	1,385 9,834 39,387	1,349 9,577 38,357	1,314 9,327 37,354	1,279 9,083 36,377	1,246 8,845 35,426	1,213 8,614 34,499	1,182 8,389 33,597	1,15° 8,168 32,718
17,278         16,881         16,455         16,057         15,670         15,292         14,923         14,923           17,278         16,881         16,455         16,057         15,670         15,292         14,923         1           1 8,985         8,541         8,119         7,718         7,337         6,975         6,630           2 4,922         4,679         4,448         4,228         4,020         3,821         3,632           5 50,630         48,129         45,752         43,493         41,345         39,303         37,362           3 418,386         401,443         385,916         371,693         358,672         346,762         38,303         37,362	Region Total 71,420 54,794 -23.3% -2.6% 53,361	54,794 -23.3% -2.6% 54,794	-23.3% -2.6% 54,794	-2.6% 54,794	54,794				53,36	-	51,966	20,607	49,283	47,994	46,739	45,517	44,327	43,167	42,038
17,278         16,861         16,455         16,057         15,670         15,292         14,923         1           1         8,885         8,541         8,119         7,718         7,337         6,975         6,630           3         7,523         34,909         33,185         31,546         29,988         28,507         27,099           3         4,922         4,679         4,448         4,228         4,020         3,821         3,632           5         50,630         48,129         45,752         43,493         41,345         39,303         37,362           3         418,386         401,443         385,916         371,693         358,672         346,763         335,882         3	Rochester 23,736 18,592 -21.7% -2.4% Rochester 18,592 16,143	18,592 -21.7% -2.4% Rochester 18,592	-21.7% -2.4% Rochester 18,592	-2.4% Rochester 18,592	Rochester 18,592	18,592	18,592		18,143		17,706	17,278	16,861	16,455	16,057	15,670	15,292	14,923	14,563
8.985 8.541 8.119 7,718 7,337 6,975 6,630 36,723 34,909 33,185 31,546 29,988 28,507 27,099 4,922 4,649 4,446 4,228 4,020 3,821 3,632 50,630 48,129 45,752 43,493 41,345 39,303 37,362 448,386 401,443 385,916 371,693 388,672 346,763 335,882 3	Region Total 23,736 18,592 -21.7% -2.4% 18,143	18,592 -21.7% -2.4% 18,592	-21.7% -2.4% 18,592	-2.4%	18,592				18,143						. 290'9			14,923	14,563
50,630 48,129 45,752 43,493 41,345 39,303 37,362 418,386 401,443 385,916 371,693 388,672 346,763 335,882 3	Upper ValleClaremont         9,925         10,459         5.4%         0.5%         17.7%         Claremont         10,459         9,942           Lebanon         76,335         42,749         -44.0%         -5.6%         72.5%         Lebanon         42,749         40,638           Newport         11,545         5,730         -50.4%         -6.8%         9.7%         Newport         5,730         5,447	10,459 5,4% 0.5% 17.7% Claremont 10,459 42,749 -44,0% -5.6% 72.5% Lebanon 42,749 5,730 -50.4% -6.8% 9.7% Newport 5,730	5.4% 0.5% 17.7% Claremont 10,459 -44.0% -5.6% 72.5% Lebanon 42,749 -50.4% -6.8% 9.7% Newport 5,730	0.5% 17.7% Claremont 10,459 -5.6% 72.5% Lebanon 42,749 -6.8% 9.7% Newport 5,730	17.7% Claremont 10,459 72.5% Lebanon 42,749 9.7% Newport 5,730	Claremont 10,459 Lebanon 42,749 Newport 5,730	t 10,459 42,749 5,730		9,947 40,638 5,447	01 00 5	9,451 38,631 5,178	8,985 36,723 4,922	8,541 34,909 4,679	8,119 33,185 4,448	7,718 31,546 4,228	7,337 29,988 4,020	6,975 28,507 3,821	6,630 27,099 3,632	6,303 25,761 3,453
418,386 401,443 385,916 371,693 358,672 346,763 335,882	Region Total 97,805 58,938 -39.7% -4.9% 56,027	58,938 -39.7% 4.9% 58,938	-39.7% 4.9% 58,938	4.9%	58,938				56,027	2	53,260	50,630	48,129	45,752	43,493	41,345	39,303	37,362	35,516
	Total Airport Activity 849,748 479,044 43.6% -5.6% 479,044 457,040	479,044 43.6% -5.6% 479,044	43.6% -5.6% 479,044	-5.6% 479,044	479,044				457,0	9		418,386	401,443			358,672	346,763		325,954

\* 1990 Data for Pease represents 1993 data, the year Pease started civilian operations

Trend Line Analysis - Operations







Appendix 7-A – New Hampshire Statute Title XXXIX, Airports, Chapter 424 Airport Zoning









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# **Chapter 424: Airport Zoning**

Section 424:1 Definitions

Section 424:2 Airport Hazards Not in Public Interest

Section 424:3 Preparation of Airport-Approach Plans

Section 424:4 Privately-owned Airports

Section 424:5 Adoption of Airport Zoning Regulations

Section 424:6 Permits and Variances

Section 424:6-a Application of Zoning and Planning Laws

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Section 424:9 Enforcement and Remedies [Repealed]

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#### TITLE XXXIX AERONAUTICS

#### CHAPTER 424 AIRPORT ZONING

#### Section 424:1

**424:1 Definitions.** – As used in this chapter unless the context otherwise requires:

- I. "Airport" means any area of land or water, whether constructed or not, which has been approved by the commissioner as a site for the landing and taking-off of aircraft or utilized or to be utilized by the public as a point of arrival or departure by air.
- II. "Airport hazard" means any structure, tree, smoke, steam, dust or other substance which obstructs the aerial approaches of a publicly owned airport or impairs the reasonable visibility in the vicinity thereof, electrical impulses and disturbances which interfere with radio aids or communications and lights which might result in glare in the vision of pilots of aircraft or be confused with airport lights.
- III. An airport is "publicly-owned" if the portion thereof used for the landing and taking-off of aircraft is owned by a governmental body, political subdivision, public agency, or other public corporation.
  - IV. "Department" means the department of transportation.
- V. "Person" means any individual, firm, co-partnership, corporation, company, association, joint stock association or body politic, and includes any trustee, receiver, assignee, or other similar representative thereof.
- VI. "Structure" means any object constructed or installed by man, including such objects although regulated or licensed by other provisions of law.
  - VII. "Tree" means any object of natural growth.

Source. 1941, 145:1; 199:40. RL 51:78. RSA 424:1. 1955, 58:1. 1985, 402:6, I(c)(3), 32.



#### TITLE XXXIX AERONAUTICS

#### CHAPTER 424 AIRPORT ZONING

#### **Section 424:2**

**424:2 Airport Hazards Not in Public Interest.** – It is hereby found and declared that an airport hazard endangers the lives and property of users of the airport and of occupants of land in its vicinity, and also, if of the obstruction type, in effect reduces the size of the area available for the landing, taking-off and maneuvering of aircraft, thus tending to destroy or impair the utility of the airport and the public investment therein, and is therefore not in the interest of the public health, public safety, or general welfare.

**Source.** 1941, 145:2. RL 51:79.







#### TITLE XXXIX AERONAUTICS

#### CHAPTER 424 AIRPORT ZONING

#### Section 424:3

**424:3 Preparation of Airport-Approach Plans.** – The department of transportation is hereby empowered and directed to formulate and adopt, and from time to time as may be necessary revise, an airport-approach plan for each publicly-owned airport in the state. Each such plan shall indicate the circumstances in which structures and trees are or would be airport hazards, the area within which measures for the protection of the airport's aerial approaches should be taken, and what the height limits and other objectives of such measures should be. In adopting or revising any such plan, the department shall consider, among other things, the character of the flying operations expected to be conducted at the airport, the nature of the terrain, the height of existing structures and trees above the level of the airport, and the practicability of lowering or removing existing obstructions, and all other material matters, and the department may obtain and consider the views of the agency of the federal government charged with the fostering of civil aeronautics as to the aerial approaches necessary to safe flying operations at the airport.

**Source.** 1941, 145:3. RL 51:80. RSA 424:3. 1985, 402:6, I(c)(3).





#### TITLE XXXIX AERONAUTICS

#### CHAPTER 424 AIRPORT ZONING

#### **Section 424:4**

**424:4 Privately-owned Airports.** – The department of transportation is hereby empowered and directed to formulate and adopt, and from time to time as may be necessary revise, an airport-approach plan for such airports as are privately owned but which have been licensed for commercial operation, have facilities available for public use and are necessary in the opinion of the department for the maintenance of an effective airway system in the state. Every privately-owned airport so designated by the department is hereby declared to be eligible for zoning protection and for the purposes hereof shall be deemed to be a publicly-owned airport for the purposes of airport zoning as provided in this chapter.

**Source.** 1949, 53:2. RSA 424:4. 1985, 402:6, I(c)(3).







# TITLE XXXIX AERONAUTICS CHAPTER 424 AIRPORT ZONING

#### Section 424:5

#### 424:5 Adoption of Airport Zoning Regulations. -

I. Every town having within its territorial limits an airport, or an area approved as an airport site by the commissioner, shall adopt, administer and enforce, under the police power and in the manner and upon the conditions hereinafter prescribed, airport zoning regulations applicable to such area, which regulations shall divide the area into zones, and, within such zones, specify the land uses permitted, regulate and restrict the height to which structures or trees may be erected or allowed to grow, and regulate and restrict the creation and discharge of smoke, steam, dust or other obstructions to visibility, electrical impulses and disturbances which interfere with radio aids or communication and regulate and restrict lighting as may be necessary to effectuate the safe approach to the airport.

II. In the event that a town has adopted, or hereafter adopts, a general zoning ordinance regulating, among other things, the height of buildings, any airport zoning regulations adopted for the same area or portion thereof under this chapter, may be incorporated in and made a part of such general zoning regulations, and be administered and enforced in connection therewith, but such general zoning regulations shall not limit the effectiveness or scope of the regulations adopted hereunder.

III. Any zoning or other regulations applicable to any area within which, according to an airportapproach plan adopted by the department, measures should be taken for the protection of airport
approaches, including not only any airport zoning regulations adopted under this chapter but any zoning
or other regulations dealing with the same or similar matters that have been or may be adopted under
authority other than that conferred by this chapter, shall be consistent with, and conform to, the
department's approach plan for such area, and shall be amended from time to time as may be necessary to
conform to any revision of the plan that may be made by the department.

IV. All airport zoning regulations adopted hereunder shall be reasonable, and none shall require the removal, lowering, or other change or alteration of any structure or tree not conforming to the regulations when adopted or amended, or otherwise interfere with the continuance of any nonconforming use, except as provided in RSA 424:6, I.

V. If any city or town fails to adopt within a reasonable time airport zoning regulations, the department may, for the protection of the public safety, adopt and from time to time as may be necessary amend or repeal such regulations for such city or town until airport zoning regulations herein provided for are adopted by such city or town.

**Source.** 1941, 145:4. RL 51:81. RSA 424:5. 1955, 58:2. 1985, 402:6, I(c)(3).







# TITLE XXXIX AERONAUTICS CHAPTER 424 AIRPORT ZONING Section 424:6

#### 424:6 Permits and Variances. -

I. PERMITS. Where advisable to facilitate the enforcement of zoning regulations adopted pursuant to this chapter, a system may be established for granting permits to establish or construct new structures and other uses and to replace existing structures and other uses or make substantial changes therein or substantial repairs thereof. In any event, before any nonconforming structure or tree may be replaced, substantially altered or repaired, rebuilt, allowed to grow higher, or replanted, a permit must be secured from the administrative agency authorized to administer and enforce the regulations, authorizing such replacement, change or repair. No such permit shall be granted that would allow the structure or tree in question to be made higher or become a greater hazard to air navigation than it was when the applicable regulation was adopted; and whenever the administrative agency determines that a nonconforming structure or tree has been abandoned or more than 80 percent torn down, destroyed, deteriorated, or decayed: (a) no permit shall be granted that would allow said structure or tree to exceed the applicable height limit or otherwise deviate from the zoning regulations, but a permit shall be issued as of right if the structure as erected or altered is in conformance with the regulations or will not constitute a greater hazard than the structure that is replaced or altered; and (b) whether application is made for a permit under this paragraph or not, the said agency may by appropriate action compel the owner of the nonconforming structure or tree to lower, remove, reconstruct, or equip such object as may be necessary to conform to the regulations. Except as indicated, all applications for permits for replacement, change or repair of nonconforming uses shall be granted.

II. VARIANCES. Any person desiring to erect any structure, or increase the height of any structure, or permit the growth of any tree, or otherwise use his property in violation of airport zoning regulations adopted hereunder may apply to the zoning board of adjustment for a variance from the zoning regulations in question. Such variances shall be allowed where a literal application or enforcement of the regulations would result in practical difficulty or unnecessary hardship and the relief granted would not be contrary to the public interest but do substantial justice and be in accordance with the spirit of the regulations.

III. OBSTRUCTION MARKING AND LIGHTING. In granting any permit or variance under this section, the administrative agency or zoning board of adjustment may, if it deems such action advisable to effectuate the purposes hereof and reasonable in the circumstances, so condition such permit or variance as to require the owner of the structure or tree in question to permit the political subdivision, at its own expense, to install, operate, and maintain suitable obstruction markers and obstruction lights thereon.







**Source.** 1941, 145:5. RL 51:82. 2001, 40:1, eff. Aug. 7, 2001.

# TITLE XXXIX AERONAUTICS

#### CHAPTER 424 AIRPORT ZONING

#### Section 424:6-a

**424:6-a Application of Zoning and Planning Laws.** – The provisions of title LXIV shall apply to procedures for adoption of local airport zoning regulations, the administration and enforcement of the requirements of local airport zoning regulations, and procedures for rehearing and appeal from any action taken by a local land use board, building inspector, or the local legislative body with respect to airport zoning regulations.

Source. 2001, 40:2, eff. Aug. 7, 2001.







#### TITLE XXXIX AERONAUTICS

#### CHAPTER 424 AIRPORT ZONING

#### **Section 424:10**

**424:10 Acquisition of Air Rights.** – In any case in which: (1) it is desired to remove, lower, or otherwise terminate a nonconforming use; or (2) the approach protection necessary according to the department's airport-approach plan cannot, because of constitutional limitations, be provided by airport zoning regulations hereunder; or (3) it appears advisable that the necessary approach protection be provided by acquisition of property rights rather than by airport zoning regulations, the town within which the property or nonconforming use is located, the town owning the airport or served by it, or the governor and council, upon recommendation of the department, may acquire, by purchase, grant, or condemnation in the manner provided by law by which towns or the governor and council are authorized to acquire real property for public purposes, such an air right, easement, or other estate or interest in the property or nonconforming use in question, and so may acquire a substitute property, structure and easement and convey the same to anyone whose structures, easements and property are or may be a nonconforming use, as may be necessary to effectuate the purposes hereof.

**Source.** 1941, 145:9. RL 51:86. RSA 424:10. 1985, 402:6, I(c)(3).







Appendix 7-B – NHDES Worksheets







State of New Hampshire - Department of Transportation

# CATEGORICAL EXCLUSION NON-PROGRAMMATIC ENVIRONMENTAL IMPACT SUMMARY

Action/Project Name: Federal Project Number:	State Project Number:
Description of Project (Attach Location Map, As Appropriate):	
Contracting to state to contract the contract of the contract	
Project Purpose and Need:	
Alternatives Considered:	
Alt. No. 1	
Alt. No. 2	
Alt. No. 3	
Project Setting:	
Urban ☐ Village ☐ Rural ☐ Scenic Byway/NH Scenic Road? Yes ☐ No ☐ National/State Forest Highway? Yes ☐ No ☐	
Unique Features:	
	Nr
4	January 200





State of New Hampshire - Department of Transportation

#### CONTACT LETTERS SENT & REPLIES RECEIVED

AGENCY/ORGANIZATION	CONTACT	LETTER SENT	REPLY RECV'D

LOCATION MAP







#### State of New Hampshire - Department of Transportation

#### IMPACT ASSESSMENT SUMMARY

1.	Air Quality NOT APPLICABLE	
	Is project located in ozone nonattainment area?  Is project located in carbon monoxide nonattainment area?  Is project included in conformity determinations?  Is project exempt from conformity determination?  Is project exempt from CO analysis?  Exemption Code (from most recent conformity document):  Has project changed since the conformity analysis?  Yes No	
	Is project exempt from NEPA requirement to consider air quality? Yes \( \scale= \) No \( \scale= \)	
	For Projects Requiring a Carbon Monoxide Microscale Analysis:	
	Maximum Predicted 1-Hour Concentrations (ppm):  YEAR  CONCENTRATRIONS  Current Year ( ) to NAAQS Violations? Yes No Dening Year ( )build to NAAQS Violations? Yes No Dening Year ( )no-build to NAAQS Violations? Yes No Design Year ( )build to NAAQS Violations? Yes No Design Year ( )no-build to NAAQS Violations? Yes No Design Year ( )no-build to NAAQS Violations? Yes No Design Year ( )no-build to NAAQS Violations? Yes No Design Year ( )no-build NAAQS Violations?	
	Comments:	
		-
2.	Historic/Archaeological Resources (Section 106 or RSA 227-C:9)  NOT APPLICABLE	
	Historic Resources Investigated? Yes No No National Register Eligible? Yes No Comments	
	Archaeological Resources Investigated? Yes  No  National Register Eligible? Yes  No  Comments	
	Findings: No Historic Properties Affected ☐ No Adverse Effect ☐ Adverse Effect ☐	
	Agency Comments:	
	Review Completed:	
	Advisory Council Consultation Comments (when Adverse Effects are found):	
	Review Completed:	
	Mitigation (Describe):	
	6 Janua	ry 20





State of New Hampshire - Department of Transportation

3.	Threatened or Endangered Species/Natural Communities NOT APPLICABLE
	Endangered species in project area? Yes No In vicinity? Yes No Section 7 consultation necessary? Yes No
	Comments from NH Natural Heritage Inventory: A program of the NH Department of Resources and Economic Development
	Comments from State, Federal, or private agency:
	Mitigation (Describe):
4.	Floodplains or Floodways NOT APPLICABLE
	Does the proposed project encroach in the floodplain? Yes No Acreage
	Significance (Describe):
	Does the proposed project encroach in the floodway? Yes No Acreage
	Significance (Describe):
	Coordination With FEMA Required? Yes No Comments from NH Office of Emergency Management
	Comments from NH Office of State Planning:
	Comments from Federal Highway Administration:
	Comments from US Army Corps of Engineers.
	Mitigation (Describe):
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#### State of New Hampshire - Department of Transportation NOT APPLICABLE 5. Noise Is project a Type I Highway Project? Yes No Yes No : # Of Commercial Are There Receptors Present? # of Residential Range of Noise Levels (dBA Leg) Noise Abatement Criterion Impacts Commercial (C) # Approaching Year Residential (R) # At or Exceeding No-Build Res. Comm Res. Comm to to Build Res, Comm Res. Comm Comm Res. No-Build to to Res. Comm Comm Res. Comm Build to to 3 dBA or more? Will completed project increase noise levels Yes [ Yes 🗌 No 🗍 15 dBA or More? Are mitigation measures included in project? Yes . No . Has the municipality received a copy of the traffic noise assessment? Yes \( \text{\bar} \) No \( \text{\bar} \) NOT APPLICABLE 6. Right-of-Way Is additional ROW required? No [ Acreage Are improved properties acquired? Yes Private Homes Businesses Displacement: Rental Units Relocation Report received from the Bureau of Right-of-Way? Yes No Relocation services to be provided? Properties available for relocation? Public Land (Federal State, or Municipal) Involvement? Yes No (See Section 7 below.) NOT APPLICABLE 7. Section 4(f) Resources Yes | Yes | Yes | Yes | Temporary Public Parkland Impacts? No Permanent Public Recreational Area Impacts? No Temporary Permanent No [ Temporary Permanent Public Wildlife/Waterfowl Refuge Impacts? Permanent Historic Properties Impacted? No. Temporary Yes 🗌 No 🗌 Temporary LCIP Recreational Land? Acquisition required? Yes . No . Area\_\_\_ Comments: Non-acquisition use of 4(f) property (23 CFR 771.135(p)): Yes No Yes No No Visual Intrusion Yes No Noise Level Increase Vibration Impacts Yes No Access Restriction Ecological Intrusion 4(f) Evaluation Programmatic 4(f) Evaluation

8





State of New Hampshire - Department of Transportation

8.	Section 6(f) Resources			distribution of	NOT APPLICABLE [	
	Are there impacts to any properti Federal Land and Water Consen		roved with funds Yes		hrough Section 6(f) of the prary Permanent	
	Recommendation received from Coordination with the US Departr		The second secon	es No No		
	Comments:					
9.	Water Quality/Streams, River	s, and Lakes	1 2 2 1	The House	NOT APPLICABLE [	
	Erosion Control Plan Required? Groundwater Impacts? Surface Water Impacts? Wells Impacted? Stream Alteration Required?	Yes No Yes No Yes No Yes No Yes No Yes No	Private[	Community[	Municipal	
		Public Waters Acco Shoreland Protection Lakes Managemer Wild and Scenic Ri NH Designated Riv	on? Yes t? Yes ver? Yes	No   No   No   No   No   No   No   No		
	Comments:					
10.	Wetlands				NOT APPLICABLE	
	Will this project impact lands und Type of permit required: expedite Does this project qualify under the ACOE Individual Permit required	ed minimum [ e ACOE NHSPGP	minor□ i	nds Bureau? Yes major □.	□ No □	
	Landform Type		SF&W sification	Permanent Impacts	Temporary Impacts	
			Fotal			
	Non-Wetland Bank (Junisdictional land adjacent to takes, ponds, streams Upland Portion of the Tidal Buff	and rivers)	N/A N/A			
	(Land within 100 of the highest observable tide	(ine)	Fotal			

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	State of New Hampshire – Department of Transportation	
	Estimated length of permanent impacts to banks Estimated length of permanent impacts to channel Estimated volume of impacts in Public Waters If a channel is to be constructed, or a culvert or a bridge is to be installed, give the distance the flow of be rerouted	water is to
	If waterfront project, indicate total length of shoreline frontageft.  If wall, riprap, beach, or similar project, indicate length of proposed shoreline impactft.	
	Describe Mitigation:	
	Comments:	
11.	Land Conservation Investment Program (LCIP) NOT APPLI	CABLE [
	Will land or easements obtained through the LCIP be impacted?  [Contact the LCIP Coordinater at the RH Office of State Planning]  Have the impacts been reviewed at a monthy Natural Resource Agency Meeting?  Has an application been made to CORD demonstrating compliance with RSA 162-C:6?  Yes N	。
	Comments:	
12.	Wildlife and Fisheries NOT APPLI	CABLE []
	Does the project impact important habitat?  Does the project have the potential to impact Essential Fish Habitat?  Yes No Comments from State, Federal, or private agency:	
	Mitigation (Describe):	
13.	Agricultural Land NOT APPLI	CABLE 🗆
	Does the project impact agricultural land? Yes  No Active farmland? Yes No Completion of Form AD-1006 Required?	
	Comments:	
14.	Coast Guard NOT APPLI	CABLE [
	Does the project involve work in navigable waters?  Does the project impact a historic bridge?  Does the project require a Coast Guard Permit?  Yes No Does the project require a Coast Guard Permit?	
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	State of New Hampshire - Department of Transportation
	Determination of FHWA and/or Coast Guard:
	Comments:
5.	Hazardous/Contaminated Materials Liabilities NOT APPLICABLE
	Does the project area includes sites from NHDES Groundwater Protection Bureau list? Yes No SA completed and attached? Yes No Additional investigation required? Yes No Remediation required? Yes No Remediation required? Yes No
	Comments:
6.	Public Participation Opportunity NOT APPLICABLE
	Public Informational Meeting? Yes No Date  Public Hearing Required? Yes No Date  On site meeting? Yes No Date
	Comments:
7.	Social and Economic Impacts NOT APPLICABLE
	Is the project consistent with local and regional land use plans? Yes  No
	Describe:
	Neighborhood and community impacts? Yes  No  Handicapped Schools Low Income Housing
	Schools
	Describe

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	State of New Hampshire – Department of Transportation  Impacts to local businesses? Yes   No   Temporary   Permanent   Describe:		
18.	Environmental Justice	NOT APPLICA	ABLE []
	Does the area affected by the proposed action contain minority or low-income populations?  Are the anticipated environmental impacts resulting from the proposed action likely to fall disproportionately on the minority and/or low income populations?  Comments:	Yes  Yes	No 🗆
19.	Traffic Patterns  Temporary detour required? Yes No Length Temporary bridge required? Yes No Impacts? Yes No Describe:  Permanent changes to traffic patterns? Yes No Describe No Desc	NOT APPLICA	BLE [
20	Describe:  Construction Impacts:	NOT APPLICA	
	Describe:		
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21.	Field Inspection Comr	ments:		
	<del></del>			
	-			
	-			
2.	Coordination			Till Ed
	Meeting	Date	Comments	
3.	Environmental Mitigat	ion and/or Commitments		
3.	Environmental Mitigat	ion and/or Commitments		
3,	Environmental Mitigat	ion and/or Commitments		
3,	Environmental Mitigat	ion and/or Commitments	X.	
3,	Environmental Mitigat	ion and/or Commitments		
3.	Environmental Mitigat	ion and/or Commitments		
3,	Environmental Mitigat	ion and/or Commitments		
3.	Environmental Mitigat	ion and/or Commitments		
3.	Environmental Mitigat	ion and/or Commitments		
3.	Environmental Mitigat	ion and/or Commitments		
3.	Environmental Mitigat	ion and/or Commitments		
23.				impact
	Note: When appropriate	. more detailed description	s: ns of resources and an explanation of the	impact
		. more detailed description		impact
	Note: When appropriate	. more detailed description		impact
	Note: When appropriate	. more detailed description		impact
	Note: When appropriate	. more detailed description		impact
	Note: When appropriate	. more detailed description		impact
	Note: When appropriate	. more detailed description		impact
	Note: When appropriate	. more detailed description		impact
	Note: When appropriate	. more detailed description		impact





Evaluated by:	(Bureau of Environment Representative) (Title)	Date
	or	
Evaluated by:	(Consulting Firm Representative) (Consulting Firm Name)	Date
Accepted by:		







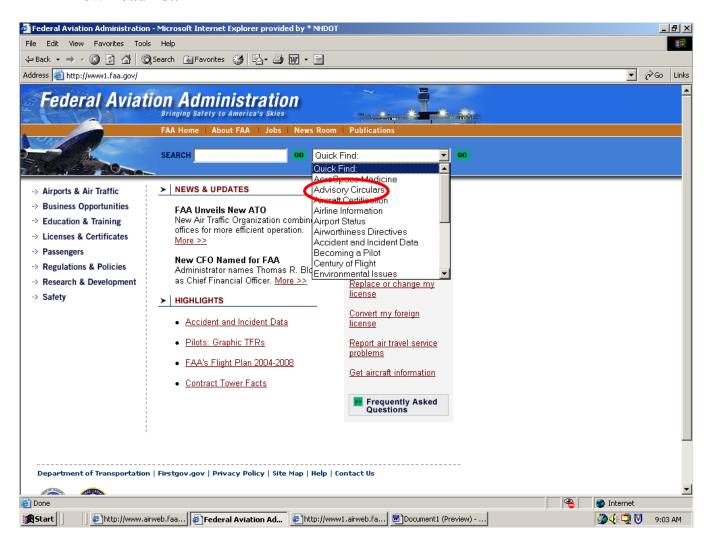
Appendix 7-C – Sample Airport Zoning Ordinance







The most current version of AC-150/5190-4A is available on the FAA websites at <a href="www.faa.gov">www.faa.gov</a> by searching the FAA Advisory Circular Download list.



As of the printing of this document, the direct link for AC-150/5190-4A was the following:

 $\frac{http://www1.airweb.faa.gov/Regulatory\_and\_Guidance\_Library/rgAdvisoryCircular.nsf/ACNumber/35E18}{83669B46C6A86256C690074E920?OpenDocument}$ 

However, please be aware that these links may change from time to time.







Appendix 8-A – The NASCAR Air Force







# The Nascar Air Force

#### Racing crews take to the air to meet demanding schedules

**By Alton K. Marsh** (From *AOPA Pilot*, February 1999.)

Forty-three stock cars are thundering around the track in the MBNA Gold 400 faster than the average cruising speed of many general aviation airplanes. The bowl-shaped stands of the Dover Downs International Speedway in Dover, Delaware, provide a great view for spectators while amplifying the screaming clatter. On this Sunday afternoon, the few greenhorn spectators without earplugs hear only the rattling of the anvil and stirrup bones in their ears—perceived by the brain as a buzz saw attacking concrete. They won't hear well again until Monday afternoon.

It's surprising that the pistons remain in the engine blocks of these 725-horsepower Winston Cup Series engines. For those new to racing the Winston Cup Series is, to borrow a phrase, king of the hill, top of the heap. Advertising-covered race cars flash before fans who are dressed in T-shirts decorated in their favorite car's gaudy colors. The aroma of fried chicken and hamburgers from sponsors' VIP tents behind the bleachers mingles with the smell of burning rubber from new racing tires growing old fast.

Nascar Winston Cup races attract 6 million spectators and 177 million television viewers each year. Spectator interest has exploded in the last five years, making Nascar—the National Association for Stock Car Auto Racing—a marketing leviathan. There are race car Jell-O (a car sponsor) molds in your local grocery store, race car models at the nearest Texaco (also a car sponsor), and Nascar souvenir stores in towns that don't even have tracks. Fans are unusually loyal, eating Cheerios for breakfast if they like Johnny Benson's 26 car, but Kellogg's Corn Flakes if they support Terry Labonte's 5 car. (Around Nascar you never say "the number 26 car," but instead "the 26 car" or "the 5 car," unless you want people to think you are a rookie.)

With the explosion in interest has come an explosion in the schedule: There were 36 races in all corners of the country last year. More tracks are under construction and the number of races will grow. A schedule like that can only be met through use of general aviation, a fact not lost on aircraft manufacturers. VisionAire, for example, has targeted all of racing as one of the best markets for its Vantage jet now in development. Last July, the company sponsored the VisionAire 500, part of the Indy Racing League, at the Charlotte (North Carolina) Motor Speedway. In all, VisionAire has sponsored the VisionAire 500 twice, a drag race, and four cars ranging from drag racers and stock cars to Indy-style open-wheel race cars. Next year VisionAire will sponsor a car racing in the Nascar Busch Series, a younger cousin to the Winston Cup Series.

"There is no question that the racing schedules are getting bigger and more hectic each year," said Tim Beverly, a pilot and owner of Tyler Jet Motorsports. "The only way to survive and budget your time wisely is by flying yourself. Drivers can't physically handle the race schedule, sponsor demands, and personal commitments without a plane. You justify all the costs when you look back over the course of a year and realize that you have saved yourself more than two weeks' worth of hours by flying privately rather than on a commercial airline."

Included among the pilot-drivers are Mark Martin and Rusty Wallace, who claimed in a *Sports Illustrated* interview that the Learjet 31A he pilots is the fastest aircraft on the Nascar circuit. Although not pilots, three-time and current Winston Cup champion Jeff Gordon and two-time champion Terry Labonte (1984 and 1996) also ride to work in Learjets. Martin, Gordon's closest competitor for last year's Winston Cup champion title, lives in a fly-in community in Florida and commutes to races in his Cessna CitationJet.







Gordon drives for Hendrick Motorsports, which owns three Winston Cup cars and a race truck. On any weekend during the season the company must move more than 50 people, and uses five airplanes to do it. The company owns a Gulfstream II, two Beech King Air 200s, and two Beech 1900s. Chief pilot Jay Luckwaldt said he stopped operating into the airport near Talladega, Alabama, when pattern operations became "too dangerous" because of the number of aircraft. Since all the drivers and crews are on the same schedule, they generally end up flying at the same time. Rusty Wallace calls it an aerial convoy, while Doyle Rouse, a pilot for the Richard Childress team, calls it an armada.

It takes a fleet of 120 general aviation aircraft—what might be called the Nascar Air Force—to move the army of pit crews, drivers, and owners. Flight Explorer, the flight tracking software by Dimensions International (www.dimen-intl.com), captured the phenomenon last year on the Thursday (moving day for most crews) before a July Winston Cup race in *Loudon, New Hampshire*. The radar blips bubbled up from North Carolina until there was a string of more than 50 aircraft seemingly nose to tail—all headed to the same destination. Eventually they broke into two tracks when the first airways became clogged. Coming home from that race on the following Sunday, aircraft emerged from two airports near the racetrack (*Concord and Laconia Airports*). The car sponsors could be seen streaking westward to their headquarters in large northern cities while crews and owners headed back to North Carolina. Mark Martin, driver of the Valvoline 6 car, left the pack in North Carolina and flew to his home in Florida.

"So many planes go to a race that you make your own traffic problems in the system itself," said Jeff Hartmann, pilot of a Beech King Air 200—the workhorse of the Nascar fleet—for Andy Petree Racing. Hartmann supports the crew of the Skoal Bandit 33 car driven by Kenny Schrader. "In *New Hampshire* they set up a special routing for the teams. Whatever you file, they still give you the special routing."

Rouse said that the Childress team operates four airplanes—an IAI Westwind II, a Rockwell Sabreliner, a Beech 1900, and a King Air 200. The aircraft move 43 people per weekend. Advance teams go in on Thursday to help with qualifications and testing, and the over-the-wall (pit) crew moves in Sunday morning. Last year Rouse flew 189 hours.

"New controllers who have never seen the glitter of all the airplanes on their scopes all taking off at six or seven in the morning ask, 'Where is everyone going?' But their supervisors know," Rouse said. He praises Atlanta-area controllers for handling the armada best. At a few other airports, departures are delayed by the requirement for clearances, if the weather is IFR, or by the huge conga line of aircraft on the taxiway. Rouse is kept busy in the off season supporting car and racing truck testing, and with business trips for Childress. Rouse supports teams for Daytona 500 winner Dale Earnhardt and driver Mike Skinner, along with a Super Truck racing team.

Jack Roush, owner of the Valvoline, Exide, Primestar, John Deere, and Cheerios cars, said he puts some of his crews on the Race Car Express, a chartered airliner shared jointly by many of the teams, and uses eight private aircraft to transport 58 race crew members. Roush Industries, a high-performance car engineering company in Livonia, Michigan, has branched out into making airplane parts for jet aircraft. He learned to fly because of his need to visit not only the tracks, but also shops in North Carolina where his cars are built. Since earning his pilot certificate he has developed an interest in warbirds, and rebuilt a North American P–51 Mustang. He and Mark Martin, who drives for him, agreed when they both appeared on the television show Ultimate Flights that climbing into a cockpit offers a good way to "get unhooked from the day's events."

Martin added that his CitationJet is, in some ways, easier to fly than the Cessna 340 he once operated, and







is "as comfortable as an old pair of shoes." The only adjustment was getting used to seeing waypoints pass by faster, he said. Steve Hmiel, Martin's crew chief, said on the Ultimate Flights show that Nascar aircraft owners are always looking for aircraft speed mods so that they can go a little faster, just like on the track.

While the Nascar fleet has blossomed in the past five or six years with an influx of jets, aviation has always been a part of the racing scene. "Racing was always my first love, but flying has become my passion," says 1983 Winston Cup champion Bobby Allison. His career was cut short from an accident at the Pocono, Pennsylvania, raceway in 1988, but he recovered enough to regain his airman medical certificate. "I bought my first airplane in 1967 and hired an instructor to help me get my pilot's license," he said. "I would fly from one race to the next so I would have more time to race on short tracks during the week between Winston Cup events." Today's car owners share his views on the importance of aviation to Nascar.

"The airplane is as important as any milling lathe or any piece of equipment in the shop, primarily due to what has happened to our schedule," said car owner Richard Childress. "There are more races, and we are going farther to several new racetracks. Aviation is a big part of the budget, but you have to have it."

Fifty years have elapsed since Nascar evolved from cars originally built as moonshine tankers that could outfox the law along North Carolina back roads. Descendents of those tankers shine on today's racetracks at more than 200 mph, but the future of the sport that hooch built clearly depends on still faster machines in the air.

